FETCO® XTS EXTRACTOR TOUCHSCREEN User's Guide

CBS-2131XTS & CBS-2132XTS 3- liter airpot brewers

Models:

- **CBS-2131XTS**
- **CBS-2132XTS**

One gallon and three liter single and dual airpot brewers

CBS-2131XTS & CBS-2132XTS 1-gallon airpot brewers

NOTICE TO INSTALLER: Please leave this book with the machine.

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U.S. Patent 7,866,255 7,631,593 6,889,598 6,772,676 6,576,282 6,571,685 6,565,906 6,705,208 6,148,717 6,713,109 & Other Patents Are Pending

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Contact Information

FETCO®
Food Equipment Technologies Company
600 Rose Road
Lake Zurich • IL • 60047-0429 • USA

Internet: www.fetco.com

Phone: (800) 338-2699 (US & Canada)
(847) 719-3000
Fax: (847) 719-3001

Email: sales@fetco.com
Technical Support techsupport@fetco.com

Description & Features

The CBS-2130XTS Series coffee brewers feature our universal spray over technology, which works like this:

The following variables are programmed for each batch size:

- Brew volume
- Brew time
- Adjustable number of pulses
- Drip delay (The time between the end of the brew cycle and the unlocking of the brew basket)
- Prewet percent (Percentage of the brew volume)
- Prewet delay (The time between prewetting and the brew cycle)
- Brew water low temperature lockout

Using these variables, the software calculates how much water to use for prewetting and brewing. The total brew time digitally divides into several cycles. Within these cycles, the software calculates how long to spray water over the coffee grounds, and how long to pause before the next cycle begins.

Factory settings

The following are the factory set defaults—all variables in the brew menu are adjustable:
Brew Volume and coffee filter size:
CBS-2131&2132 XTS: Up to 1 gallon/3.8 liters per brew Coffee Filters: 13" X 5" FETCO Product #F002
Brew Time, all models: Factory set at 5.5 minutes=[4 minute brew time + 1.5 minute drip delay]
Temperature Control: Water temperature is factory set at 93°C/200°F

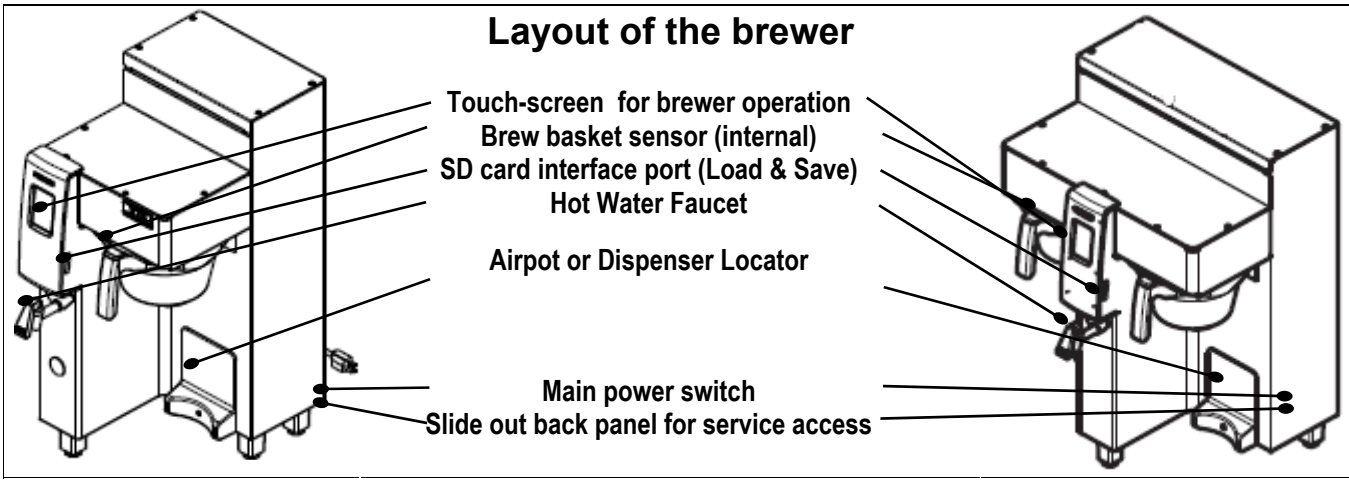
Features

- Touchscreen Operation [**XTS**: E**X**tractor **T**ouch **S**creen]
- Cascading Spray Dome-No clog sprayhead
- Brew mechanism is digitally adjustable
- Intuitive Control Settings for Batch sizing
- Infinitely variable bypass for strength adjustment
- Four fully programmable batch sizes per side
- User programs save-to and load-from SD cards
- Recipe copy to SD card
- Customizable batch name
- Screen logo customizable by user from SD card
- SD card firmware program and upgrade installation
- User selectable Universal Electrical Connection
- Brew water low temperature lockout
- ECO mode for tank heater energy savings
- Dispenser locator under brew basket
- Magnetic flux brew basket sensor
- Brewbasket locks (configurable)
- Totalizing counters for brewer functions
- Optional gourmet stainless steel brewbasket
- Demonstration Mode for review & training
- Heavier gauge stainless steel cabinet
- Configurable for FLOWJET® pump module
- SD card Backup for menu items
- Flexible electrical installation configuration

Designs, materials, specifications, physical dimensions, firmware and software protocol for equipment or replacement parts are subject to review and change by FETCO without notice

Accessing equipment and control screens

Layout of the brewer

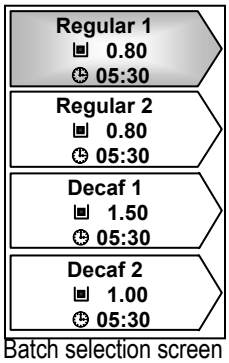

Touch-screen for brewer operation
Brew basket sensor (internal)
SD card interface port (Load & Save)
Hot Water Faucet
Airpot or Dispenser Locator
Main power switch
Slide out back panel for service access

Accessing batch and programming menu screens

CBS-2100 home screen shown

← CBS_2100XTS brewer HOME SCREEN:
Tap to enter batch selection screen.

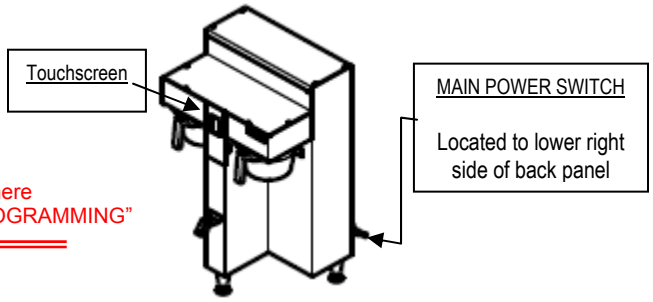
←Tap to select batch→
…AND…
Select and hold down a batch selector pennant to begin brew.



Batch selection screen

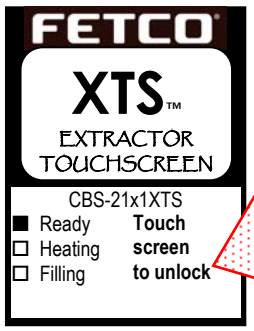
Accessing the menu screens for programming

Touch/Hold here
to enter "PROGRAMMING"



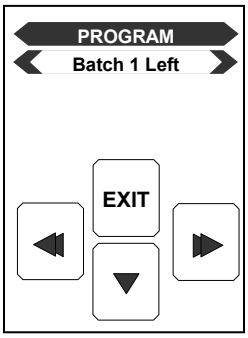
CBS-2100 home screen shown

CBS-2100 home screen shown
Shown in optional "ECO" Mode



CBS-2100 home screen shown

→From power **"OFF"**
→Touch screen will briefly illuminate
→Turn main power switch to "ON"
(Switch located lower right side of back panel)
-When Complete: the HOME SCREEN will display
-Immediately touch and hold finger to enter programming
-Lower portion of the screen will highlight as shown
-In 5-8 seconds "PROGRAMMING" screen will appear→

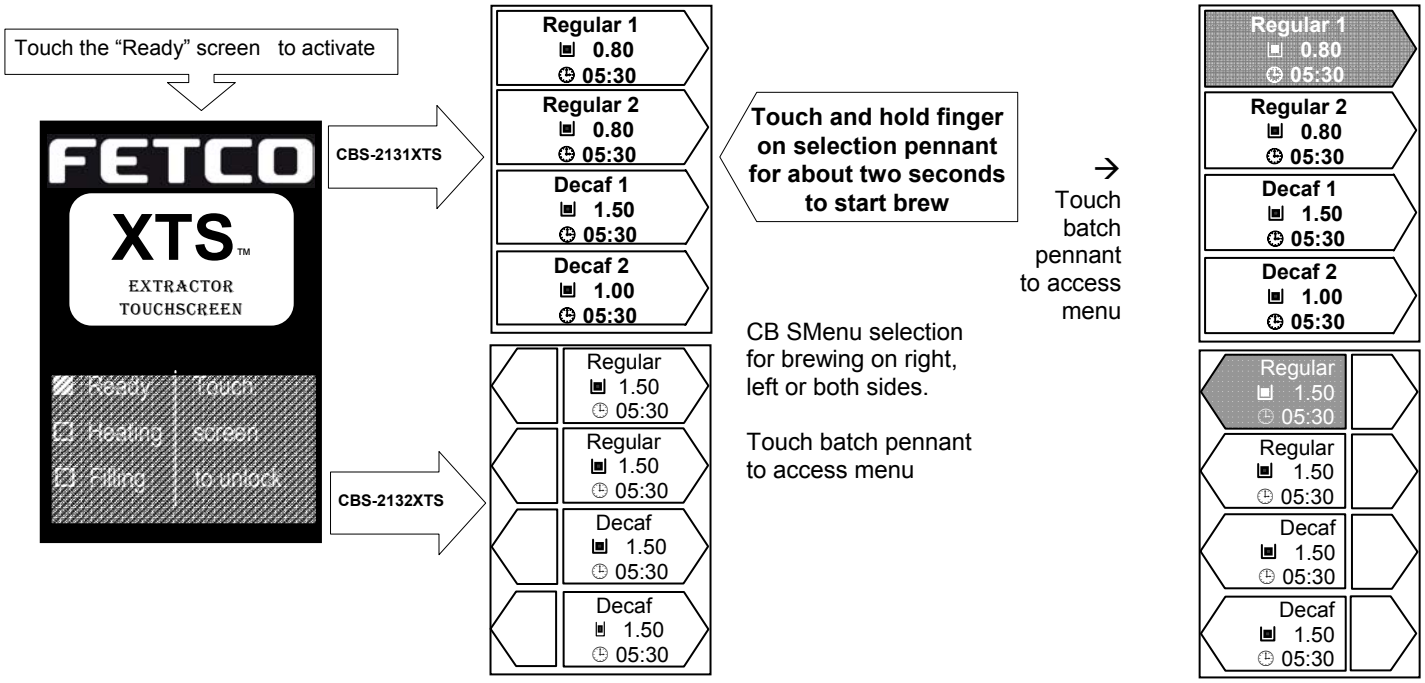


→Quick brewer setup	NOTES
Install plumbing and electrical utilities.	-See Installation Section in this guide
Turn rear power switch “ON”.	-Located on back, lower right side
Brewer hot water tank will fill in 4-8 minutes.	-Ready screen will display ”▪FILLING”
Heater(s) activate when tank is full	-Ready screen will display ”▪HEATING”
Initial heating will be 15-30 minutes	-Place dispenser under brewbasket(s) to collect any overflow and condensate
Tank displays “ ▪ READY” when filled & 200°F/93°C is reached	
Brewer is ready to brew when “▪ READY” is displayed	-Best results if brewer remains “ON”

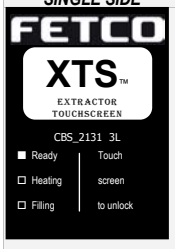
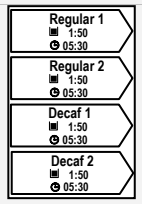
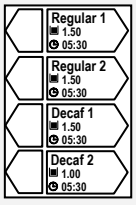
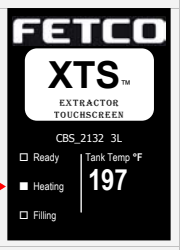
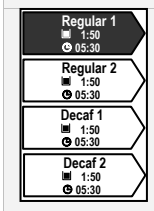
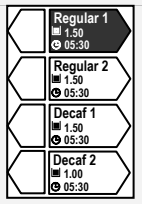
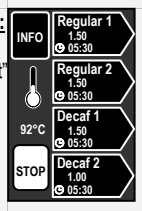
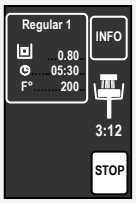
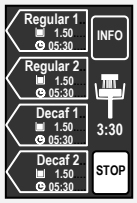
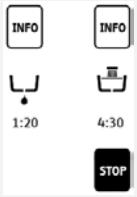
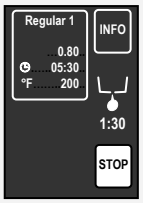
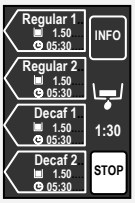
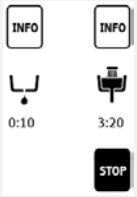
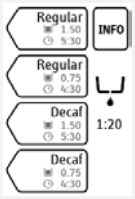
Operating Instructions

Brewing

→To brew a single 3 liter coffee batch, using default recipe	NOTES
FETCO CBS-2130XTS series equipment is factory calibrated and preloaded with recipes and is ready to brew.	
Place 13”X5” paper filter in brew basket	-FETCO Product # F002 or any 13”X5”
Add 3-8 ounces (85 – 227 g) of ground coffee	-Weights given are only suggested
Insert loaded brewbasket into brewer rails	-Brewbasket(s) must be in place
Have empty dispenser under brewbasket	-Use the convenient locator guide
Tap “▪ READY” screen to enter the batch selection menu	-A long duration “TAP” with fingertip
Touch a top batch key for “REGULAR 1”	-Touch batch pennant with fingertip
Brewer will brew and display the icon for the function step it is in	-Icon may be toggled for information
On dual side brewer, touch other side to access batches for brewing	-Right to left side switching by touch
Batch will complete brewing in 5 ½ minutes	-Brew time: 4 minutes+1½ min. drip out

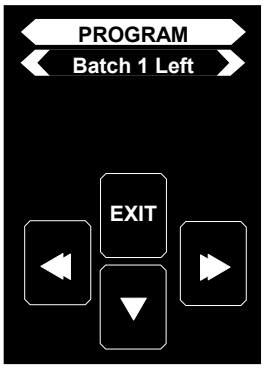


Brewing-shown by touchscreen

Brewer screens displayed for brewing			NOTES
CBS-2131XTS *SINGLE SIDE*		**CBS-2132XTS** *TWIN SIDE*	
	"READY SCREEN" Tap screen to display menus		Note: There are three "BREW AT TEMPERATURE DEFINITONS". The "*Brew At Temperature* "—**"ON"** default routine is used for the illustration below..
	Unit displays four preprogrammed batch buttons per side. CBS-2132XTS has right and left ←CBS-2131XTS CBS-2132XTS →		**Brew at tempertaure "ON" enabled**: if this feature is enabled:brew start will be enabled when tank temperature reaches the temperature set point → 
	Select and hold one button for 2 seconds		If pressed in **ON:** Brew activation screen "locks out" until tank is at set temp.  If pressed in **"AUTO"** ***Brew At Temperature Setting***, a WAIT sceen with temperature icon appears . Brew will start when tank is at set temperature
	Brewing ←CBS-2131XTS CBS-2132XTS →		Both sides of CBS-2132XTS brewing simaltanously, brewer sides will also operate indepentently or alone	
	Brew completed (in drip delay) ←CBS-2131XTS CBS-2132XTS →		Both sides of CBS-2132XTS brewing simaltanously. Left side completing drip delay	
Brew basket sensor enabled. Unit is brewable only when brebasket is in place. (option may be disabled by user)			CBS-2132XTS right side completing drip delay, left side ready for next brew	

Programming-operator access programming

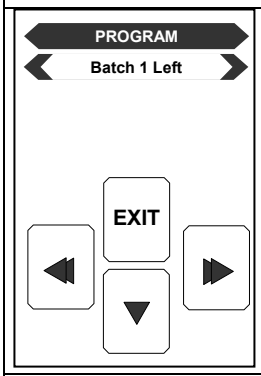
-The FETCO CBS-2100XTS brewers have four brew batch menus per side.
Menus are preprogrammed by the factory with basic settings that will operate the equipment as purchased.
There are two batches each marked “Regular” and two marked “Decaf”
-Most operators prefer a full batch and half batch setting for regular and decaf or specialty coffees.
The half batch setting will need to be programmed by the operator to match the dispenser.
-Settings are adjustable and the name of the menu can be changed. -Batch 1 cannot be disabled.

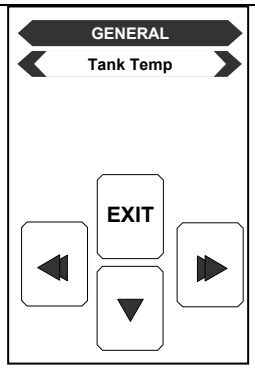
Menu screen displayed	Accessing Programming	Menu screen displayed	Accessing Programming menu screens
(Brewer “HOME” screen)	Turn unit “OFF” After 10 second delay: Turn unit “ON” ← “HOME" Screen on left will appear Immediately place finger on screen and “HOLD” Screen on right will appear →	 (Programming menu screen)	←Top line is programming category ←Second line displays items for programming Right and left hand arrows will scroll to the screens that display “Program, General, Inputs, Outputs and Other” The down arrow enters the individual programming items shown below

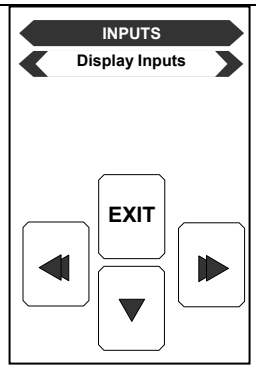
Programming-category screens: Menu Tree

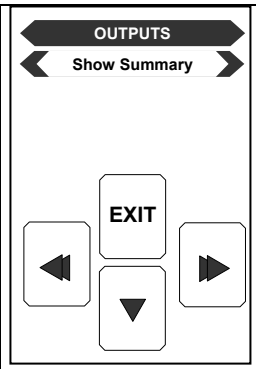
Programming category screens

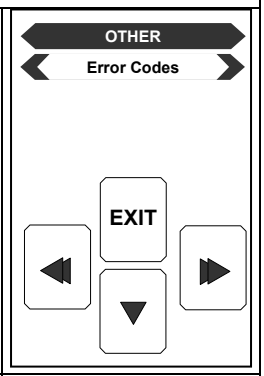
To enter: Turn unit “OFF”, After 10 second delay, turn unit “ON”, (Home Screen will appear), Immediately place finger on screen and “HOLD”—“**PROGRAM”** Screen (first below) will appear. Use right/left and down arrows to travel through programming. “EXIT” saves settings











Programming Category	Programming Category	Programming Category	Programming Category	Programming Category
PROGRAM	**GENERAL**	**INPUTS**	**OUTPUTS**	**OTHER**
Items for Programming	**Items for Programming**	**Items for Programming**	**Items for Programming**	**Items for Programming**
Batch 1 Left*	**Tank Temp**	**Display Inputs**	**Show Summary**	**Error Codes**
Batch 2 Left**	**Brew At Temp**	**Calib Touch Scr**	**Left Valve**	**Copy Program**
Batch 3 Left **	**Units of Meas.**		**L. Bypass Valve**	**Upload Logo**
Batch 4 Left **	**ECO Mode**		**Right Valve**	**Res to Factory**
Batch 1 RIGHT*	**Logo Timeout**		**R. Bypass Valve**	**Counters**
Batch 2 Right **	**Brew B.Sensor**		**Fill Valve**	**Firmware**
Batch 3 Right **	**Use Flojet**		**Left Basket Lk**	**DEMO Mode**
Batch 4 Right **	**LLC Sensitivity**		**Right Basket Lk**	
Batch Copy			**Heater**	
			Screen	

Menu Features: Batch Parameters

PROGRAM	Programming Items	Factory set Default	Programming Range	Notes
Batch 1 Right*	• Batch Summary	Display Summary		
	• Batch Name	Regular 1(-8)	Choose from list: Regular1	(Regular 1-16) -OR- Write: any name
CBS-2130XTS **3 liter model only**	• **B**atch **V**olume	0.80 gal [0..25-1.00]	0.80 gal |_____[]_____| 0.25 1.00	
CBS-2130XTS **1 gallon model**	• **B**atch **V**olume	1.00 gal [0..25-1.00]	0.80 gal |_____[]_____| 0.25 1.00	
	• Brew Time	4:00 mm:ss [2:00-10.00]	4:00 mm:ss |____[]_____| 2:00 10:00	
	• Nr Of Pulses	8	8 |____[]_____| 1 30	
	• Prewet Perc.	0%	0 % |_[]_____| 0 15	
	• Bypass Perc.	0%	0 % |_[]_____| 0 40	
	• Drip Delay	1:30 mm:ss	1:30 mm:ss |____[]_____| 0:30 5:00	
Batch 2 Right	**Batch 2-4—Right may be individually selected-or-entirely deleted			
	• Batch ON/OFF**	ON	ON |_____[]_____| ON OFF	
	• Batch Summary	Display Summary		
	• Batch Name	Regular 1	Regular 1-16;Write own name	
CBS-2130XTS **3 liter model only**	• **B**atch **V**olume	0.80 gal [0..25-1.00]	0.80 gal |_____[]_____| 0.25 1.00	
CBS-2130XTS **1 gallon model**	• **B**atch **V**olume	1.00 gal [0..25-1.00]	0.80 gal |_____[]_____| 0.25 1.00	
	• Brew Time	4:00 mm:ss [2:00-10.00]	4:00 mm:ss |____[]_____| 2:00 10:00	
	• Nr Of Pulses	8	8 |____[]_____| 1 30	
	• Prewet Perc.	0%	0 % |_[]_____| 0 15	
	• Bypass Perc.	0%	0 % |_[]_____| 0 40	
	• Drip Delay	1:30 mm:ss	1:30 mm:ss |____[]_____| 0:30 5:00	
Batch 3 Right **	*(See Batch **2-Right**)*			
Batch 4 Right **	*(See Batch **2-Right**)*			
Batch Copy	Copy From Batch	R1	R1-R4	
	Copy To Batch	R1	R1-R4	
	Copy?	R1→R2? (example)	NO |_____[]__| YES NO	

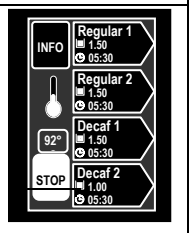
***Batch 1&4 cannot be disabled. (CBS-2132XTS); *Batch 1 cannot be disabled. (CBS-2131XTS) **Batch can be disabled, and removed from display**

GENERAL	Programming Items	Factory set Default	Programming Range (display)	Notes
Tank Temp.		200°F	200 °F |_____[]_____| 170 207	Correction for high altitude below
Brew at Temp.	"OFF" allows brewing at any temperature.	**"ON"**	ON |_____[]_____| OFF ON AUTO	**SEE NOTE BELOW!**
Units of Meas.	• Temperature	°C **or** °F	°F |__[]_____| °F °C	[Switchable Units]
	• Volume	Gallons [Liters]	Gallons |__[]_____| Gallons Liters	[Switchable Units]
ECO Mode	Energy Saving Mode	OFF	ECO Mode _____[]_____ ON OFF	If Selected: Lowers hot water tank temperature to 170°F after 1 hour of inactivity
Logo Timeout		0:30 mm:ss	0:30 mm:ss |__[]_____| 0:15 5:00	
Brew B. Sensor		NORMAL	NORMAL |__[]_____| NORMAL OVERRIDE	Factory or service use for servicing. "NORMAL" is recommended for safety.
Use Flowjet		NO	NO _[]_____ NO YES	Trims water handling system for Flowjet
LLC Sensitivity	Normal for most water "HIGH" for R.O.	NORMAL	NORMAL _[]_____ NORMAL HIGH	Sets sensitivity for liquid level control. High is for reverse osmosis water or other very pure water.

BREW AT TEMPERATURE DEFINITONS

BREW AT TEMP: **"ON"**
(DEFAULT: FACTORY PROGRAMMED INTO BREWER)
"BREW START" Batch Section Buttons will not be accessible until tank temperature is at set point.
The "BREW START" screens with the Batch Section Buttons become accessible when hot water tank is at the selected temperature. The screen at right displays when the "BREW AT TEMP" is selected.

BREW AT TEMP: **AUTO** **USER SELECTABLE**
This allows the "BREW START" to activate if the hot water tank is at the selected temperature—then brew will start.
If the temperature is too low, the brewer will wait until the proper temperature is reached. A screen (example to the right) will display showing a thermometer icon and the tank temperature.
IMPORTANT: ALWAYS have dispenser(s) under the brew baskets when in the BREW AT TEMP mode.



BREW AT TEMP: **OFF** **USER SELECTABLE**
Allows brewing at any temperature above 179°F/82°C. (Not recommended)

Chart to correct for altitude for boiling point in tank water temperature.

[ft]	[m]	Suggested Setting[°F]	Boiling point[°F]	Suggested Setting[°C]	Boiling point [°C]
0	0	200	212.0	93	100.0
500	152	200	211.0	93	99.5
1000	305	200	210.1	93	98.9
2000	610	200	208.1	93	97.8
2500	762	200	207.2	93	97.3
3000	914	200	206.2	93	96.8
3500	1067	197	205.3	92	96.3
4000	1219	195	204.3	91	95.7
4500	1372	194	203.4	90	95.2
5000	1524	194	202.4	90	94.7
5500	1676	193	201.5	89	94.2
6000	1829	192	200.6	89	93.6
6500	1981	191	199.6	88	93.1
7000	2134	190	198.7	87	92.6
7500	2286	188	197.8	86	92.1
8000	2438	187	196.9	86	91.6
8500	2591	185	196.0	85	91.1

INPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Display Inputs	• **Input Summery**		R. Brew Basket Sens. [single/dual] ☐ L. Brew Basket Sens. ■ H. Liquid Level probe ■ H. Tank Temperature Probe ■ L. Tank Temperature Probe ■ SD Card Recognized ☐ Tank Temp. 200	
Cal. Touch Screen		Calibrate	Calibrate _____[]_____ YES NO	If Yes: Follow directions on the touch screen

OUTPUTS	Programming Items	Factory set Default	Programming Range (display)	Notes
Show Summary	• Output Summary		Right Brew FR 1540 Right Bypass FR 2150 Screen Contrast 8 Screen Brightness 8 Touch To Return	FR=Flow Rate ml/min
CBS-2131xts Single Series displays RIGHT SIDE only				
Right Valve **Test OR Calibrate**	• Right Valve Test	(Press to test)	TEST Press To Test TEST	Runs Valve to verify flow. Have container under brewbasket!
,, ,, ,, ,,	• R. Valve Calib	Calibrate *Flow Rate	1540 ml p m |_____[]_____| 1400 1900	Factory or service use for flow rate
R. Bypass Valve **Test OR Calibrate** **Not on CBS 2130XTS**	• Right Bypass Valve Test	(Press to test)	TEST Press To Test TEST	Runs valve to verify flow. Have container under brewbasket!
,, ,, ,, ,,	• R. Bypass Valve Calib	Calibrate *Flow Rate	2150 ml p m |_____[]_____| 1900 2600	Factory or service use for flow rate
Fill Valve	• Fill Valve Test	(Press to test)	TEST Press To Test TEST	Operates fill valve. Have container under both brewbaskets!
Right Basket Lk. **Not on CBS 2130XTS**	• Right brew basket lock test	(Press to test)	TEST Press To Test TEST	Energizes brew basket lock. For factory or service use
Heater	• Heater Test	(Press to test)	TEST Press To Test TEST	Energizes Heater(s) Use for servicing.
Screen **Brightness OR Contrast**	• Screen Contrast	Contrast	8 |_____[]____| 1 10	
	• S. Brightness	Brightness	8 |_____[]____| 1 10	

For factory or qualified service professional use only

How to calibrate the flow rate

Set the flow rates of components to adjust for taste profile and for over or under potting.
Built-in algorithms in Brewer controller software corrects brew parameter to customer preferences or to trim variations in flow control components
NOTICE: This operation requires operator hold finger on keypad position for one minute—without lifting it.

1) MEASURE THE FLOW RATE:

-Enter programming mode, scroll left to "OUTPUTS"
-Scroll down to "Left(or)Right Valve Test"
-Place 5 liter/2gal measuring container under empty brewbasket.
One good way to measure is to weigh the test water. Use a scale for at least 5 kg/12lb
-Press To Test the Brew Valve. **→! Keep finger on touchpad for one minute! !!DO NOT STOP!!**
It is very important for this test to keep finger in place for the entire minute.

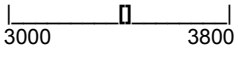
Measure the results of the flow in the 5-liter measuring container and hold the number.

2) **AUTOMATIC** Built-in CALIBRATE THE FLOW RATE

-Enter this number, in milliliters, into the calibration slider for the Valve tested in the OUTPUT MENU.
-**Use milliliters**. If measured in fluid ounces (fl.oz) multiply by 29.57 to convert to milliliters
-After entering the measured volume, exit PROGRAMMING and return to the normal screens

3) **MANUAL METHOD** Operator input: CALIBRATE THE FLOW RATE

Use the amount measured, in milliliters, divided by programmed value and multiply by the current setting



← Example of CBS-2150 brew valve slider

$$\frac{\textbf{Actual Volume}}{\textbf{Programmed Volume}} \times \textbf{CURRENT SETTING} = \textbf{NEW SETTING}$$

Enter new setting on the slider shown and EXIT to save

Obtain programmed volume from "PROGRAM" Menu under "Batch Summary".
Note—match correct batch number to correct side, if two sided.

By entering the new flow rate number into the brewer, the software automatically corrects the valve flow discrepancy

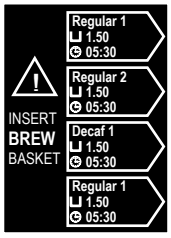
Hot water convenience tap

1. The XTS_Series coffee brewers include a hot water convenience tap for single cup beverage purposes.
2. Single use delivery volume should not exceed maximum 16fl.oz/473cc.
3. Water dispensed from this faucet is very hot, up to 205°F/96°C

OTHER	Programming Items	Factory set Default	Programming Range (display)	Notes
Error Codes	• Display Errors	(Codes)	1: 2: 3:	See Error Code Chart for references
	• Reset Errors	(Reset)	Reset YES NO	!!Errors must be corrected and cleared!!
Copy Program	• From SD to B.	SD→ Brewer	SD→ Brewer YES NO	Setup upload Please insert SD card with the setup data!
	• From B to SD	Brewer→ SD	Brewer→ SD YES NO	Setup download Please insert SD card with sufficient space (≥2GB)
Upload Logo		Upload Logo	UPLOAD LOGO Are you sure YES NO	Please insert SD card with logo file!
Res to Factory & Select Brewer Type	**See next line:** "Select Brewer Configuration"	Reset to default	Reset to Default Are you sure YES NO	Completely overwrites all user setup, incl. user logo.
Select Brewer Configuration	CBS_2131 3L; CBS_2131 1G CBS_2132 3L; CBS_2132 1G CBS_2141; CBS_2142 CBS_2151; CBS_2152	Screen appears after pressing "Res to Factory" **[Above]**	Select Model CBS [2131-2152]Series	Scroll to your brewer and tap ENTER tab
Counters	• Display Counters -OR- • Display Resettable Counters	Counters Display Total Counters	**Total Counters** Right Brews 0 Right Brew activated 0 Right Brew [gal] 0 Right Bypass activated 0 Right Bypass [gal] 0 Fill valve Activated 0 Fill Valve [gal] 0 Heater Activated 0 Heater "ON" time 0:00 **Touch To Return**	Identical screen for **Resettable Counters** Will display when selected. See next line to reset to zero NOTE: "**Total Counters**" is not user resettable
Reset Counters	• Resets Counters	Reset All Counters	Reset All Counters Are you sure YES NO	Resetting will restart counter from zero
Firmware	• Firmware Version -Software type	Display Firmware Version	CBS_2142 [or model type] SW ver 2.1.0Z HW ver 1.1.3 QP ver. 4.5.01	Displays firmware version
	• Update Firmware	UPDATE	UPDATE YES NO	Firmware upload Please insert SD card with the firmware file!
DEMO Mode	DEMO ON/OFF		OFF ON OFF	Demonstrates the controls for training. Disables all components in demo mode.

ERROR CODES	
	Error code 001: Software error-error on start up or corrupted software Error code 50: Shorted temperature probe Error code 51: Open temperature probe Error code 100: Initial Fill Error. Initial fill time was more than 4 minutes after power up. Error code 101: Error on refill Error code 102: Unwanted fill; possible leak Error code 103: Liquid level probe fault Error code 201: Heater open, high limit thermostat, or Solid State Relay (SSR) fault Error code 255: Touch pad error, usually from longer than 2 min touch contact

Insert Brewbasket!

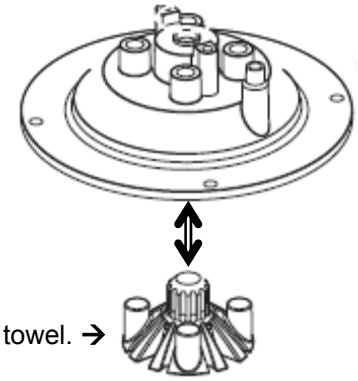


Operator Training

Review the operating procedures with whoever will be using the brewer.

Pay particular attention to the following areas:

1. Always pre-heat the dispensers before the first use of each day by filling them half way with hot water, and letting them stand for at least 5 minutes.
2. Do not remove the brew basket from a coffee brewer until it has stopped dripping.
3. Make sure the dispenser is empty before brewing into it.
4. Show how to attach covers, close, and or secure the dispensers for transporting.
5. Show the location and operation of the water shut off valve as well as the circuit breaker for the brewer.
6. Steam from the tank will form condensation in the vent tubes. This condensation will drip into and then out of the brew baskets. Up to 1/4 cup/118cc discharging overnight is possible. Place an appropriate container under each brew basket when not in use.
7. We recommend leaving the power to the brewer on overnight. The water tank is well insulated and very little electricity is used to keep the tank hot. Leaving the brewer in the "ON" position will also avoid delays at the beginning of shifts for the brewer to reach operating temperature.



Cleaning & Maintenance

After Each Brew:

1. Dispose of grounds and rinse brew basket.
2. Never strike a brewbasket or hit it against a hard surface.
   This will damage the brew cone, and may damage the brewbasket support rails
3. Rinse dispensers before reuse.

Every Day:

1. Wash brew basket with hot sudsy water.
2. Pull CSD from the spray head, it is magnetically attached. Use gloves or a heavy towel. → Wash off any film and reattach. Use vinegar if limescale filming is present.
3. Clean dispensers with hot suds water and a brush, rinse and air dry.
4. Use only a soft cloth and hot suds on the outside to avoid scratches. Never use abrasives that will scratch surface.

Weekly

1. Use a commercial coffee dispenser cleaner such as URNEX™, TABZ™, DIP-IT™ or Squeak 'n Clean™.
2. Carefully Follow the instructions supplied with the cleaning product
3. Never use spray cleaners, solvent, solvent based cleaner or petroleum based polish anywhere on dispensers

Warning

1. Turn off power before any cleaning procedure, including wiping the exterior for appearance reasons.
2. Dry the exterior, especially the face panel, before turning on power.
3. Do not apply any type of spray cleaner on the face panel of this equipment.
4. Never use solvent or solvent-based cleaner or petroleum based polish anywhere on this equipment.
5. Dry the face of the touch pad before turning on power
6. Do not electrically energize this equipment or attempt operation without all covers in place and all screws fastened.
7. Unplug machine before disassembly or servicing.

Final Setup for Operators

Final Setup

1. Turn on incoming water supply line and carefully inspect both inside and outside of the brewer for leaks in all fittings and tubes
2. Turn on power.
3. Press the brewer's main power switch (located on the lower right of the back of the equipment)

SCREENS SHOWN TO THE RIGHT WILL APPEAR

4. The water tank will begin filling. FETCO Home Screen #1 will read "FILLING".
5. When the water level rises and is sensed by the probe at the top of the tank the heaters will activate
6. Heaters are automatically disabled until the tank is full.

FETCO Home Screen #1 "FILLING"

Home Screen #2 "HEATING"

7. While the water is heating Screen #2 "HEATING" will display and the actual water temperature will be displayed.

8. After the water has reached the set temperature Screen #3 will display "READY"

FETCO Home Screen #3 "READY"

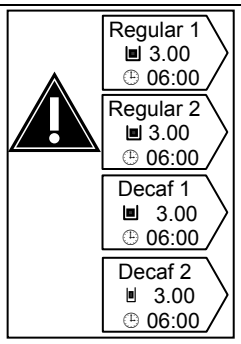
9. Review the Operating Instructions. Brew one full batch (water only) on each side to confirm proper fill levels. The brewer is factory set with water only (no coffee) to dispense the correct amount of water. If the actual volume is slightly different from the programmed volume, fine tuning the brewer may be necessary. See Calibrate Valves in the OUTPUT section in the PROGRAMMING section.
10. Re-attach the covers after one final inspection for leaks. Look closely in the top of the brewer section at the dispense fittings during this inspection.

Safety Notes

1. Professional installation is required. This appliance is manufactured only for commercial use .
2. Operation requirements and maintenance for commercial cooking appliances differ from household appliances.
3. Operators must be trained for this equipment and must understand the use, maintenance and hazards.
4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by adult trained personnel.
5. Do not attempt to move hot beverage equipment once it is filled. Drain equipment before moving.
6. FETCO commercial coffee brewers prepare large amounts of coffee or tea in a single batch using very hot water
7. Commercial coffee brewers provides very hot water from the sprayhead, brewbasket and faucet when it is pulled.
8. Coffee brewers may continue to dispense very hot water from the mechanically operated faucet after the electronic touchpad is completely disabled by turning off the power switch on the lower back of the unit, or unplugging the unit.
9. For safety, the brewer control locks the brew basket for 5.5 minutes after starting the brew.
10. Do not attempt to defeat the factory set (default) time that the brew basket locked for safety from start of brew.

Keep these instructions for training and future reference

Error Codes

→Contact specialized personnel for error codes				
Code	**Description**	**Possible Cause**	**Corrective Action**	**How to Clear Error Codes**
001	Software error-error on start up or corrupted software	Improper start-up or shutdown	Restart , if still fault: reload software	TO CLEAR FAULT, Make repairs as required Below is the only way to clear error codes 1) Enter "PROGRAMMING" 2)Scroll left to "OTHER" 3)Scroll down to "ERROR CODES" 4)Scroll down to "Display Errors" 5)Scroll left to "Reset Errors" 6)Scroll down to "Reset" 7)Follow directions shown on screen. Merely toggling ON/OFF switch <u>will not</u> clear error codes. Error codes must be cleared by entering PROGRAMMING and using the menus!
050	Shorted temperature probe	Probe failure.	Replace probe.	
051	Open temperature probe.	Bad probe connection, or probe failure.	Check all connections. Replace probe if necessary.	
100	Initial Fill Error. Initial fill time was more than 11 minutes after power up.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter...)	
101	Error on refill Tank did not refill within 3 minutes.	Water supply flow rate is too low.	Watch for short potting during brew cycle. Investigate cause of low flow rate. (Clogged water filter…)	
102	Unwanted fill; Occurs between brews when the fill valve operates.	Possible leak in tank, fitting, or valve	Check for internal leaks	
107	Lower liquid level probe Fault	-Tank not filling -Orange wire to temperature probe disconnected -Very pure water	Occurs after prefill -Low probe is uncovered -Wires are reversed -Set LLC sensitivity to HIGH see MENU—GENERAL-LLC	
201	Heater open, high limit thermostat, or Solid State Relay (SSR) fault	Failure of: heating element,SSR,high Limit or low voltage	Check and replace heating elements if necessary.	
255	Touch pad error	Usually from longer than 2 min contact. Or faulty reassembly after service	Restart, if still fault: reload software. If mechanical: reassemble correctly	
INSERT BREW BASKET		Brewbasket must be in place	Insert brewbasket	

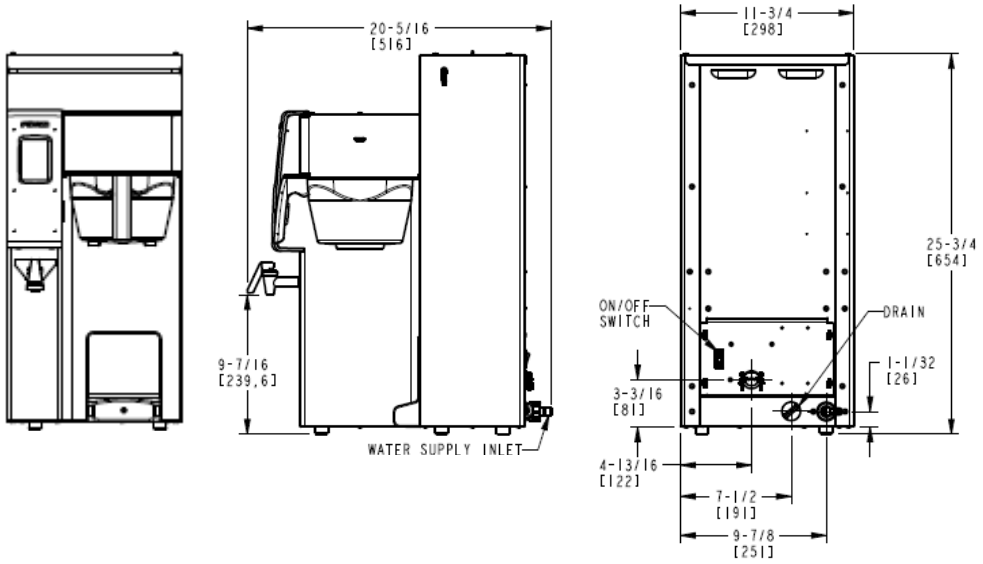
! → Never attempt to defeat or override a brew basket-locking feature

CBS-2130XTS -Technical Data

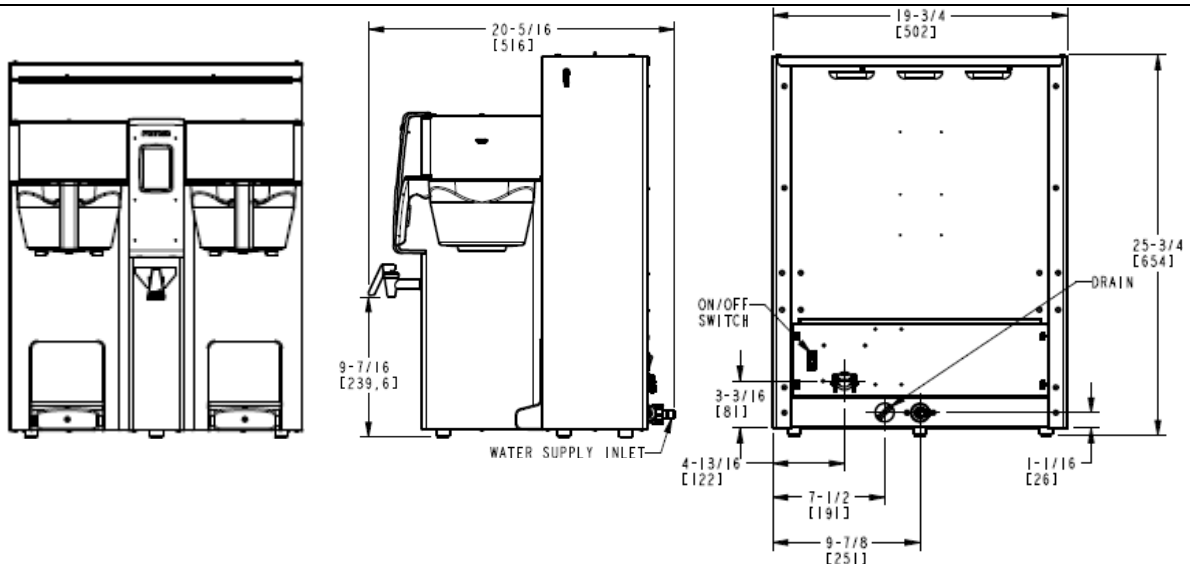
Capacities & Measurements 3 liter&1 gallon single and dual brewers

Brewer	Height	Width	Depth	Empty Weight	Filled Weight	Total Weight- Brewer & Filled Dispenser	Hot Water Tank Capacity	Shipping Weight	Shipping Dimensions
CBS-2131XTS Single-3 liter	25 ¾" 655mm	11 ¾" 303mm	20 ⅜" 516mm	29 lb 13.2kg	55 lb 25 kg	66.2lb 34.6 kg	3.3 gal 12.4 l	49 lb 19 kg	17" x 23" x 29" 432 x584x737mm
CBS-2132XTS Dual-3 liter	25 ¾" 655mm	19 ¾" 502mm	20 ⅜" 518mm	47lb 21.3kg	92lb 41.7kg	114.4lb 51.9 kg	5.8 gal 22.1 l	61lb 28kg	23"x 25" x 29" 584x635x737mm
CBS-2131XTS Single-1 gallon	27 ¾" 704mm	11 ¾" 303mm	20 ⅜" 516mm	29 lb 13.2kg	55 lb 25 kg	66.2lb 34.6 kg	3.3 gal 12.4 l	49 lb 19 kg	17" x 23" x 29" 432 x584x737mm
CBS-2132XTS Dual-1 gallon	27 ¾" 704mm	19 ¾" 502mm	20 ⅜" 518mm	47lb 21.3kg	92lb 41.7kg	114.4lb 51.9 kg	5.8 gal 22.1 l	61lb 28kg	23"x 25" x 29" 584x635x737mm

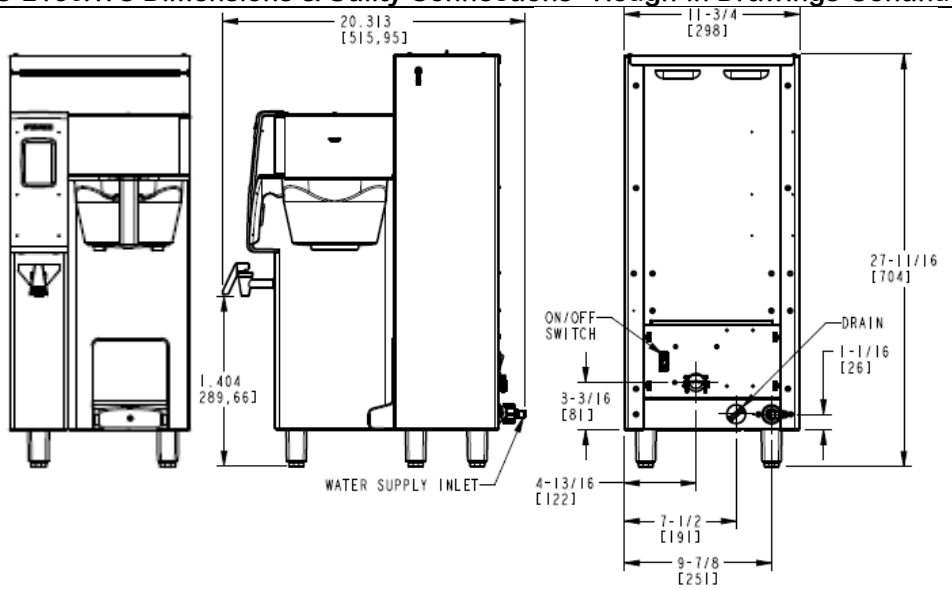
Dimensions, Utility Connections & Rough-in Drawings



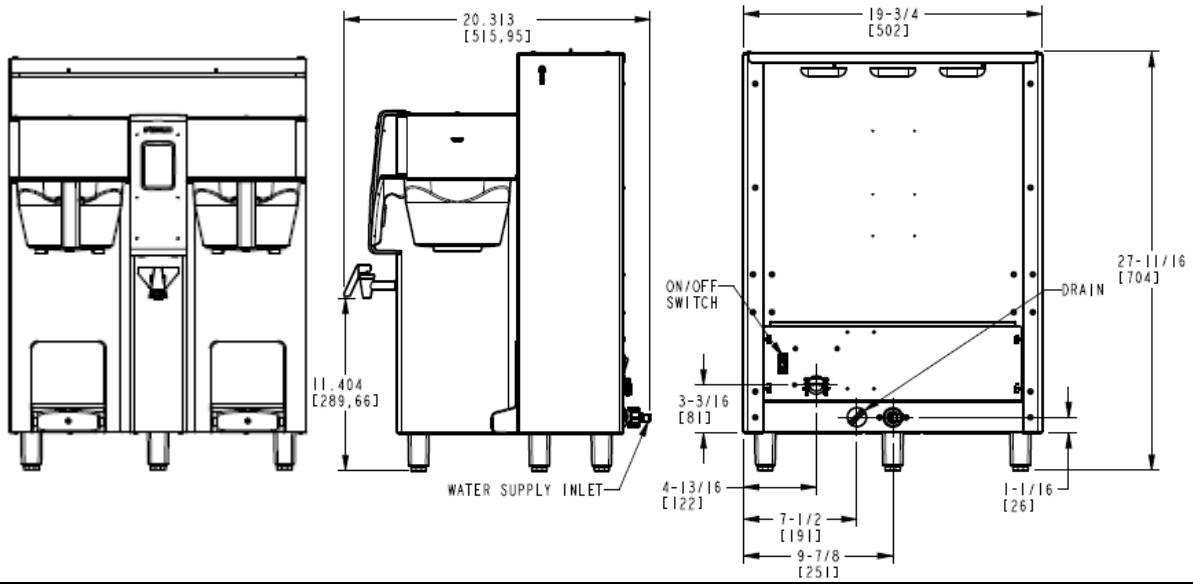
Rough-in CBS-2131XTS—Single station 3 liter airpot version Drawing#1201.00011.00



Rough-in CBS-2132XTS—Dual station 3 liter airpot version Drawing#1201.00012.00



Rough-in CBS-2131XTS—Single station 1-gallon airpot version Drawing#1201.00013.00



Rough-in CBS-2132XTS—Dual station 1-gallon airpot version Drawing#1201.00014.00

Utility Requirements

- **Water Requirements CBS-2131XTS & CBA-2132XTS:** 20-75 psig (138-517kPa) 1½gpm/(5.7lpm)
- **Water inlet fitting** is a 3/8 inch male flare.
- **Brew Volume:**
  CBS-2131XTS & 2132XTS—3 liter version: Full Batch=3 liter
  CBS-2131XTS & 2132XTS—1 gal version Full Batch=1 gal
- **Inlet Water Temperature:** Cold *or* Hot supply
- **Coffee Filter Size:**
  13”X5”– standard FETCO # F002
- **Electrical:** See electrical configuration chart.
- **Temperature:**
  200°F (93°C) inside water tank (at sea level)
  195°F (91°C) ± 5° at sprayhead

Designs, materials, specifications, physical dimensions, firmware and software protocol for equipment or replacement parts are subject to review and change by FETCO without notice

Specifications-Electrical and Output Configurations For qualified service technicians

CBS-2130XTS 3 liters airpot version

USA — CBS_2131XTS—Single 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213153	E213153M	1 X 1.5 kW	100 - 120	1	2+G	NEMA 5-15P	1.6	13.0	3.9 gal/14.8 liters
E213154	E213154M	1 X 1.7 kW	100 - 120	1	2+G	NEMA 5-15P	1.8	14.7	4.4 gal/16.7 liters
E213151	E213151M	1 X 2.3 kW	100 - 120	1	2+G	NEMA 5-20P	2.4	19.7	5.8 gal/22 liters
E213157	E213157M	1 X 3.0 kW	200 - 240	1	2+G	NEMA 6-15P	3.1	13.0	7.7 gal/29.1 liters

US and Canada — CBS_2131XTS—Single 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213193	E213193M	1 X 1.5 kW	100 - 120	1	2+G	NEMA 5-15P	1.6	13.0	3.9 gal/14.8 liters
E213194	E213194M	1 X 1.7 kW	100 - 120	1	2+G	NEMA 5-15P	1.8	14.7	4.4 gal/16.7 liters
E213195	E213195M	1 X 2.3 kW	100 - 120	1	2+G	NEMA 5-20P	2.4	19.7	5.8 gal/22 liters

International Versions — CBS_2131XTS—Single 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213190	E213190M	1 X 2.3 kW	200-240	1	2+G	Hardwired	2.4	10.0	5.8 gal/22 liters
E213191	E213191M	1 X 3.0 kW	200-240	1	2+G	Hardwired	3.1	13.0	7.7 gal/29.1 liters

EXPORT/Japan — CBS_2131XTS—Single 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213180	E213180M	1 x 2.3 kW	100	1	2+G	Hardwired	1.7	16.7	3.1 gal/14.0 liters
E213181	E213181M	1 X 2.3 kW	200	1	2+G	Hardwired	1.7	8.3	5.0 gal/21 liters
E213182	E213182M	2 X 3.0 kW	200-240	1	2+G	Hardwired	4.3	21.3	14.3 gal/54 liters

CE EXPORT — CBS_2131XTS—Single 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213169	E213169M	1 x 2.3 kW	230	1	L,N,PE	Hardwired	2.2	9.6	5.8 gal/22 liters
E213167	E213167M	1 x 3.0 kW	230	1	L,N,PE	Hardwired	2.8	12.4	7.7 gal/29.1 liters

Has CE and NSF-4 certification. Internal EMI filter. Not cUL or UL listed

USA and Canada — CBS_2132XTS—Twin 3 liters airpot version Electrical Configurations

Configuration Code		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Gallon/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213251	E213251M	2 X 2.3 kW	200-240	1	2+G	Hardwired	4.7	19.7	11.5 gal/43.5
E213252	E213252M	2 X 3.0 kW	200-240	1	2+G	Hardwired	6.1	25.5	14.0 gal/53 liters

North America & International Versions — CBS_2132XTS—Twin 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213290	E213290M	2 x 2.3 kW	200-240	1	2+G	Hardwired	3.3-4.7	16.5-19.7	11.5 gal/43.5 liters
E213291	E213291M	2 X 3.0 kW	200-240	1	2+G	Hardwired	4.2-6.1	21.3-25.5	14.3 gal/54 liters

EXPORT/Japan — CBS_2132XTS—Twin 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213280	E213280M	2 x 2.3 kW	200	1	2+G	Hardwired	3.3	16.3	11.0 gal/42.0 liters
E213281	E213281M	2 X 3.0 kW	200-240	1	2+G	Hardwired	4.2	21.3	14.9 gal/56 liters

CE EXPORT — CBS_2132XTS—Twin 3 liters airpot version Electrical Configurations

Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213265	E213265M	2 x 2.3 kW	230/400	2	2L,N,PE	Hardwired	4.3	9.6	11.0 gal/42.0 liters
E213262	E213262M	2 X 3.0 kW	230/400	2	2L,N,PE	Hardwired	5.6	12.4	14.9 gal/56 liters

Has CE and NSF-4 certification. Internal EMI filter. Not cUL or UL listed

CBS-2130XTS 3.8liters/1-gallon version

USA		CBS_2131XTS—Single 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Code		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (1 gallon per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213152	E213152M	1 X 2.3 kW	100-120	1	2+G	NEMA 5-20P	2.4	19.7	5.8 gal/22 liters
E213155	E213155M	1 X 2.3 kW	200-240	1	2+G	Hardwired	2.4	10.0	5.8 gal/22 liters
E213158	E213158M	1 X 3.0 kW	200-240	1	2+G	Hardwired	3.1	13.0	7.7 gal/29.1 liters

US and Canada		CBS_2131XTS—Single 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Code		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3.8 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213196	E213196M	1 X 2.3 kW	100-120	1	2+G	NEMA 5-20P	1.7-2.4	16.5-19.7	5.8 gal/22 liters

International Versions		CBS_2131XTS—Single 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3.8 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213197	E213197M	1 X 2.3 kW	200-240	1	2+G	Hardwired	1.7-2.4	16.5-19.7	5.8 gal/22 liters
E213192	E213192M	1 X 3.0 kW	200-240	1	2+G	Hardwired	2.2-3.1	10.9-13.0	7.7 gal/29.1 liters

CE EXPORT		CBS_2131XTS—Single 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3.8 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213168	E213168M	1 x 3.0 kW	230	1	L,N,PE	Hardwired	2.8	12.4	7.7 gal/29.1 liters
Has CE and NSF-4 certification. Internal EMI filter. Not cUL or UL listed									

USA and Canada		CBS_2132XTS—Twin 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Code		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (1 gallon per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213254	E213254M	2 x 2.3 kW	200-240	1	2+G	Hardwired	3.3-4.7	16.5-19.7	11.5 gal/43.5 lit
E213253	E213253M	2 X 3.0 kW	200-240	1	2+G	Hardwired	6.1	25.5	14.0 gal/53 lit

North America & International Versions & EXPORT/Japan CBS_2132XTS—Twin 3.8 liters/1 gallon dispenser version Electrical Configurations									
Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3.8 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213292	E213292M	2 X 3.0 kW	200-240	1	2+G	Hardwired	4.2-6.1	21.3-25.5	14.3 gal/54 liters

CE EXPORT		CBS_2132XTS—Twin 3.8 liters/1 gallon dispenser version Electrical Configurations							
Configuration Codes		Heater Configuration	Voltage	Phase	Wires	Electrical Connection	KW	Maximum Amp Draw	Brew-Volume/Hour (3.8 liters per batch)
Plastic Brewbasket	Stainless Steel Brewbasket								
E213264	E213264M	2 x 2.3 kW	230/400	2	2L,N,PE	Hardwired	4.3	9.6	11.0 gal/42.0 lit
E213263	E213263M	2 X 3.0 kW	230/400	2	2L,N,PE	Hardwired	5.6	12.4	14.9 gal/56 liters
Has CE and NSF-4 certification. Internal EMI filter. Not cUL or UL listed									

Service Guide to a Successful Installation

(For Qualified Service Technicians Only)

If not installed correctly by qualified personnel, the brewer will not operate properly and damage may result. Damages resulting from improper installation are not covered by the warranty, and will void the warranty. Here are the key points to consider before installation:

Electrical:

1. All CBS_Series brewers require **an electrical ground wire**. Installation without grounding is dangerous.
2. Note Equipotentiality Terminal, if present, (To identify the terminals which, when connected together, bring the various parts of an equipment or of a system to the same potential, not necessarily being the earth (ground) potential, e.g. for local bonding.)
3. Verify voltages, polarity, circuits, and circuit breaker access before attaching equipment.
4. The electrical diagram is located in the Users Guide and online at www.fetco.com.
5. Make sure of the tight grounding of the equipment and use the external ground bolt.
6. The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply.

Plumbing:

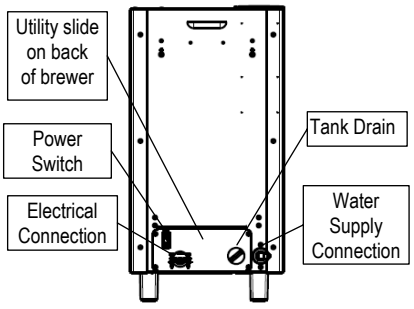
1. North America: All installations must comply with applicable federal, state, or local plumbing codes.
2. All Others: The water and waste piping and connections shall comply with the International Plumbing Code 2003, International Code Council (ICC), or to the Uniform Plumbing Code 2003 (IAPMO).
3. Use an inline water filter for all beverage equipment. It should be installed after a water shutoff valve and in a position to facilitate filter replacement.
4. The water line and newly installed filter cartage must be flushed thoroughly prior to connecting it to the brewer to prevent debris from contaminating the machine.
5. Verify that the water line will provide a flow rate of at least 1½gpm/ (5.7lpm) per minute and that the water pressure is between 20-75 psig (138-517kPa) before making any connections.
6. Install a backflow prevention device. Most municipalities require a recognized backflow preventer.
7. Usable on all hot beverage and cold beverage equipment is a WATTS® SD-2 or SD-3.
8. WATTS spring loaded double check valve models are accepted by most zoning authorities.
9. →The check valve should be as close to the water supply inlet of the beverage equipment as possible.

General:

- ❖ Utilize only qualified beverage equipment service technicians for service and installation.
- ❖ Always have an empty dispenser under sprayhead of all coffee brewing equipment-including when at idle

WARNING

Leveling legs, if installed, are to be adjusted for leveling the brewer only. Do not use for height adjustment, or extend them higher than necessary.



WARNING

All electrical connections must be in accordance with local electrical codes and any other applicable codes.
If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
To prevent an electric shock hazard this device must be bonded to equipment in close proximity with an equipotential bonding conductor. This device is equipped with a grounding lug for this purpose and is marked with the following symbol

Installation Directions

Brewer Setup

1. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (specifics-page 23).
2. Place the brewer on the counter or stand
3. For terminal bock electrical connected units: remove the lower utility slide out at the back of the equipment to access the electrical connections. The utility slide must remain close to the unit.
   Note: Utility slide out panel cannot be completely detached from the brewer.
4. Access to the service area is restricted to persons having safety/hygiene knowledge and practical experience of the coffee brewer. This appliance must be installed in locations where it can be overseen by trained personnel
5. For proper operation, this appliance must be installed indoors where the temperature is between 10°C/50°F to 35°C/95°F. Drain and remove al liquid from equipment and lines if exposed to freezing temperatures
6. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit.
7. All commercial cooking equipment, including this unit, is not intended for use by children or persons with reduced physical, sensory, or mental capabilities. Ensure proper supervision of children and keep them away from the unit
8. This unit must be installed and serviced by qualified personnel only.
9. Installation must conform to all local electrical and plumbing codes. Installation by unqualified personnel will void the unit warranty and may lead to electric shock or burn, as well as damage to unit and/or its surroundings.
10. Review the dimensions for the unit and verify that it will fit properly in the space intended for it. Verify that the counter or table will support the total weight of the brewer and dispensers when filled (See: Technical Data).
11. Place the brewer on the counter or stand. When the brewer is in position, level it front to back as well as side-to-side by adjusting the legs.
12. Do not tilt appliance more than 10° to insure safe operation.
13. Unit is for protected indoor use only. Do not steam clean or use excessive water on unit.
14. This unit is not “jet-proof” construction. Do not pressure wash or use jet spray to clean this unit.
15. The unit is not waterproof-do not submerge or saturate with water.
    Do not operate if unit has been submerged or saturated with water.
    Equipment exposed to flood and contaminated must never be used due to electrical and food safety.

General:

Utilize only qualified beverage equipment service technicians for installation.
A Service Company Directory may be found on our web site, **http://www.fetco.com**.

Water Connection

1. This equipment is to be installed to comply with the applicable federal, state, or local plumbing codes.
2. Water supply inlet is a ⅜ inch male flare fitting
3. The brewer can be connected to a cold or hot water line.
   (Cold water is preferred for best beverage flavor, but hot water will allow for greater output.)
4. Install a shut off water valve near the brewer to facilitate service. An in-line water filter should used and installed after the water shut off valve and in a position to facilitate filter replacement.
5. Flush the water supply line and filter **before** connecting it to the brewer.
6. Verify that the water line will deliver at least 1½gpm/(5.7lpm) per minute and a flow rate of at least 1½gpm/(5.7lpm) per minute and water pressure is between 20-75 psig (138-517kPa) before making any connections.
7. Use a wrench on the factory fitting when connecting the incoming water line. This will reduce stress on the internal connections and reduce the possibility of leaks developing after the install has been completed

Electrical-General

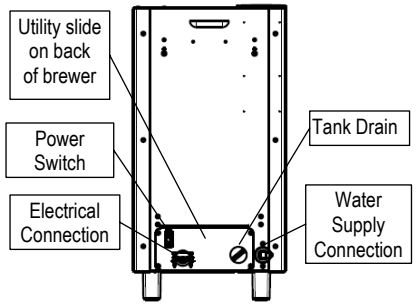
1. All FETCO brewers require Ground. Installation without ground may cause a hazard.
2. The electrical diagram with universal wiring instructions is located on the inside of the lower cover.
3. The installation must comply with applicable federal, state, and local codes having jurisdiction at your location. Check with your local inspectors to determine what codes will apply

Electrical Connection

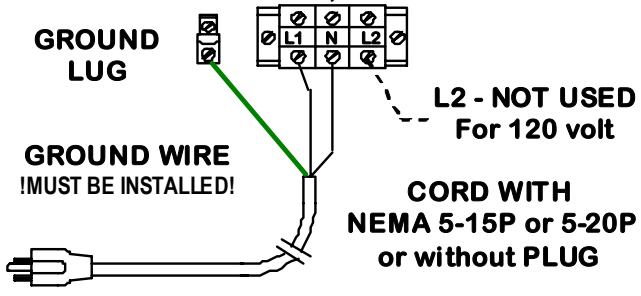
1. The CBS-2130XTS series models requires hardwire to the terminal block to a 2-wire, grounded service (illus. 1)
2. Verify that the actual voltage at the electrical service connection is compatible with the specifications on the brewer's serial number label. Make sure the electrical service match the current draw of the equipment.
3. Plug in unit if the equipment has an attached cord & plug, or, wire into circuit for terminal block units. Note that the plug is NEMA 5-15P or NEMA 5-20P (domestic). If unit is corded without plug, professional installer MUST size and install appropriate plug (*also termed PLUG-CAP*
4. Most CBS-2131XTS equipment is factory equipped with a 120 V cord and plug. Some CBS-2131XTS and all CBS-2132XTS have a terminal block for connecting the incoming power wires. Consult local codes to determine if a cord and plug can be installed on factory supplied terminal block equipment, or if the unit must be hard wired.
5. Access the terminal block for electrical connection by removing the pullout service module on the lower back.
6. A fused disconnect switch or circuit breaker on the incoming power line must be conveniently located near the brewer, and its location and markings known to the operators.
7. The temperature and water tank fill level are pre-set at the factory. There is no need to turn off the heaters during the installation process. The heaters are disabled by the control board until the tank is full of water. The heating process will start automatically when the tank has filled.
8. The body of the brewer must be grounded to a suitable building ground.
9. If Cord Connected: Do not use multiple taps for the plug. Consult local codes to determine if a single circuit is required for the cord and plug installed. Do not use extension cords for commercial food equipment.
10. All covers, removable panels and electrical connections must be secured in-place within the unit to meet national and local standards.

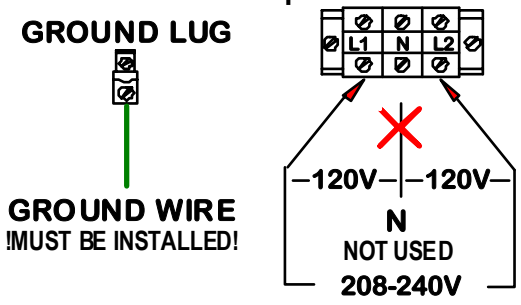
Warning: To prevent electrical shock, this unit must be properly grounded.

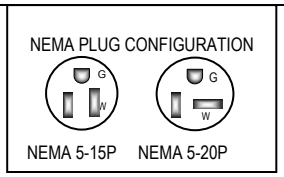
WARNING—DANGER
Do not plug-in or electrically energize this equipment, or attempt operation without all covers in place and all screws fastened.



CBS-2131XTS 120 volt models	(some)CBS-2131XTS and (all)CBS-2132XTS 208-240 volt models
Factory Configuration: **Attached cord 120 VAC, 3 wires**	**Factory Configuration:** **Terminal block for professional installation**







NOTE: →*NEW* FETCO CONFIGURATIION METHOD!

FETCO® CBS-2130XTS
COFFEE BREWING SYSTEM

Complete Commercial Parts Listing

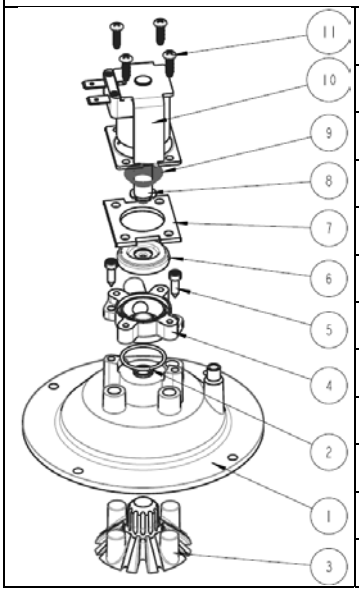
For CBS-2131XTS and CBS-2132XTS Model Range
Includes types for the 3 liter and 1 gallon airpot dispensers

Revised August, 2014

Please see our website-www.fetco.com for the most up to date listings and additional parts and service information

Designs, materials, specifications, physical dimensions, firmware and software protocol for equipment or replacement parts are subject to review and change by FETCO without notice

1102.00203.00 Spray Housing Assembly Parts CBS-2130XTS



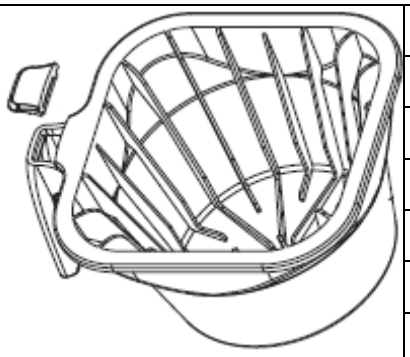
Ref.	QTY	PART NO	DESCRIPTION
1	1	1102.00020.00	SPRAY HOUSING ASSY CSD DESIGN
2	1	1024.00002.00	ORING, AS568A-019, BUNA-N
3	1	1102.00019.00	ASSEMBLY, CASCADE SPRAY DOME
4	1	1023.00189.00	ADAPTER, SPRAY HSG, DSV11 VALVE
5	2	1082.00068.00	SCREW, M3.9x13, CHEESE PH., T/FORM, Z/P
6	1	1057.00038.00	DIAPHRAGM, VALVE DSV-11
7	1	1057.00050.00	SPACER PLATE DSV11, -1 OPTION
8	1	1057.00040.00	PLUNGER, DISPENSE VALVE 24VDC
9	1	1057.00051.00	SPRING, DISPENSE VALVE 24VDC
10	1	1057.00022.00	DSV11 COIL AND FRAME ASSEMBLY, 24VDC
11	4	1082.00076.00	SCREW, #6-20 X 1/2", THRD FORM, P/H PHIL

Brewbasket Parts

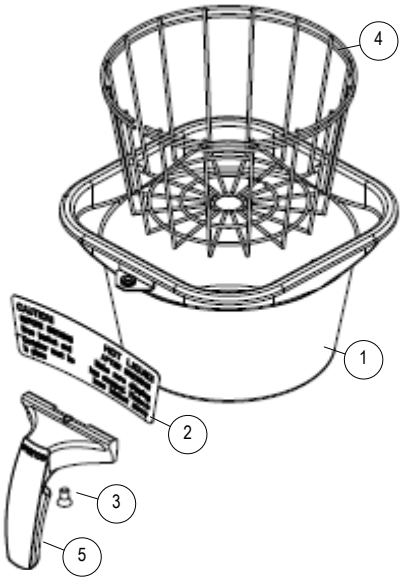
Complete Brewbasket Part Number B014218BN2 CBS-2130XTS

Brown colored insert is standard

Brewbasket handle plug for polymeric brewbaskets is available in optional colors.



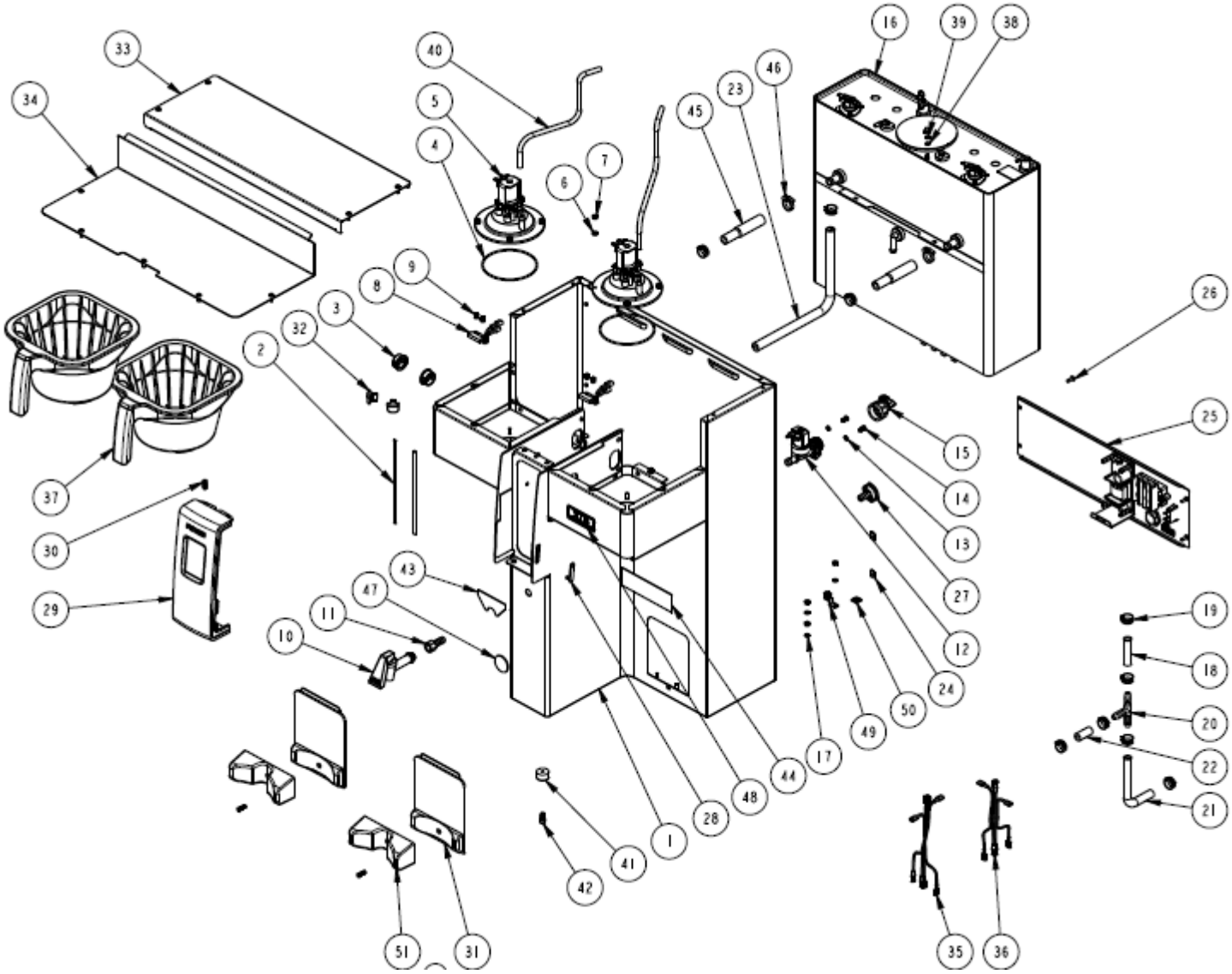
Part Number	Plug Insert color
1023.00195.00	BROWN PLUG, BB HANDLE
1023.00194.00	BLACK PLUG, BB HANDLE
1023.00190.00	RED PLUG, BB HANDLE
1023.00191.00	GREEN PLUG, BB HANDLE
1023.00192.00	ORANGE PLUG, BB HANDLE
1023.00180.00	BLUE PLUG, BB HANDLE



OPTIONAL Stainless Steel Brewbasket

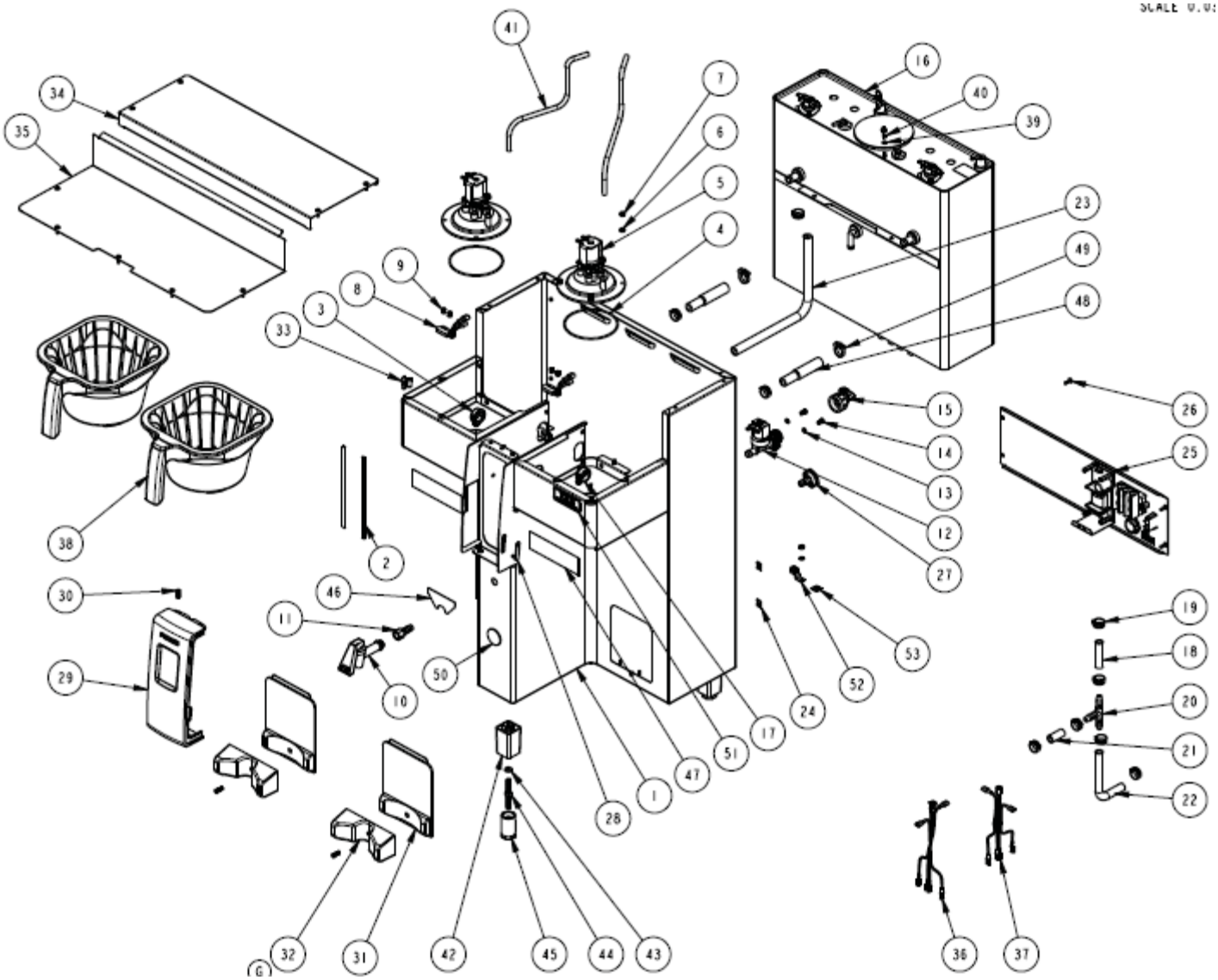
B012218B1 Complete Stainless Steel Brewbasket for CBS-2130XTS

Ref#	Qty	Part Number	Description
1	1	1112.00128.00	BB WLDMNT
2	1	1046.00025.00	BREW BASKET WARNING LABEL
3	1	1082.00040.00	SCREW, 1/4-20 X .5, FL HD, PH., W/NYLN
4	1	1009.00006.00	WIRE BASKET
5	1	1102.00064.00	HANDLE W/MAGNET ASY, BLACK
Optional colored handle		1102.00065.00	HANDLE W/MAGNET ASY, RED
Optional colored handle		1102.00066.00	HANDLE W/MAGNET ASY, GREEN
Optional colored handle		1102.00067.00	HANDLE W/MAGNET ASY, ORANGE



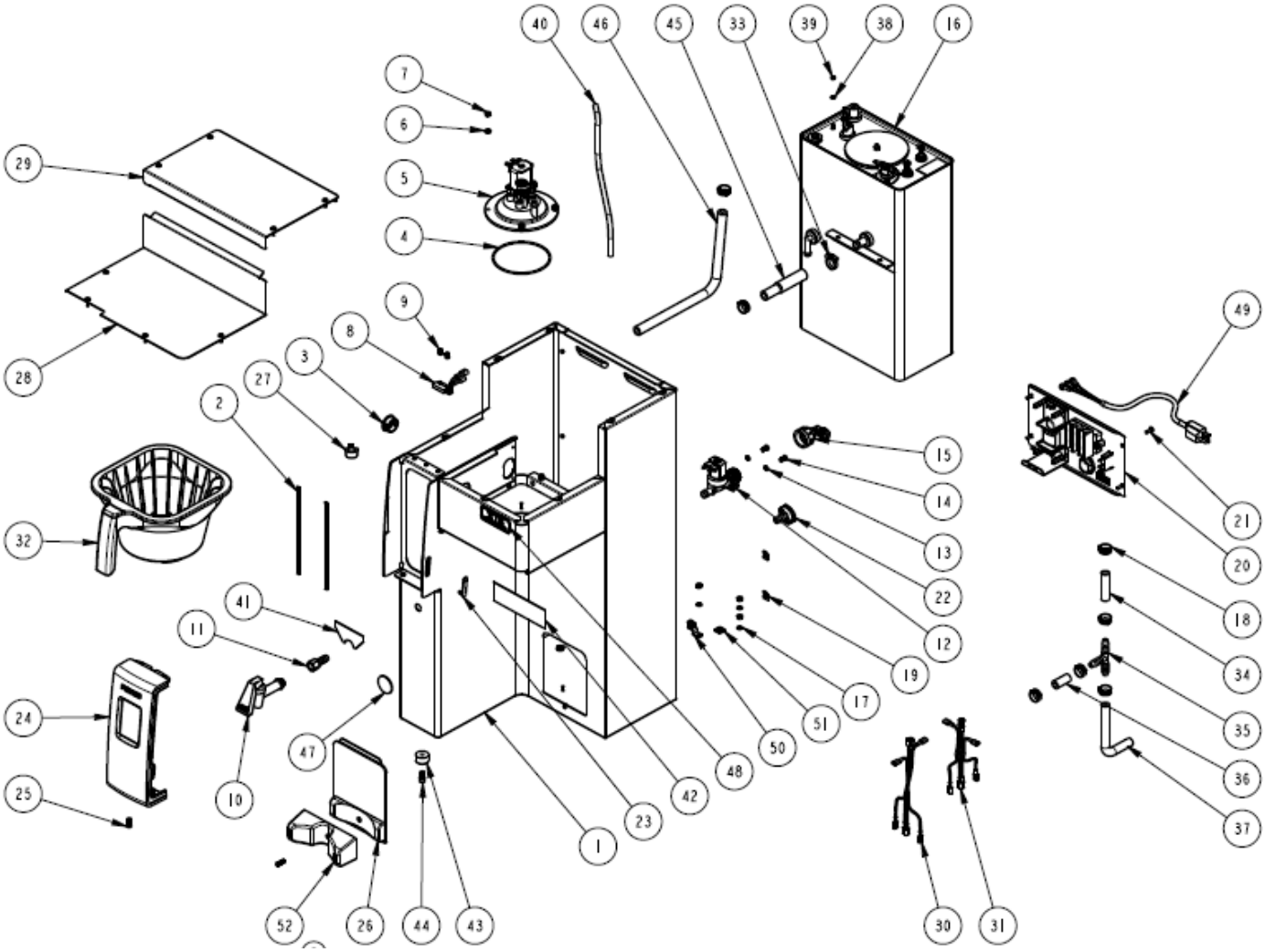
Drawing 1101.00153.00 CBS-2132 XTS 3 liter No Bypass

Drawing 1101.00153.00 CBS-2132 XTS 3 liter no bypass			
Ref#	**Qty**	**Part number**	**Description**
1	1	1111.00037.00	WELDMENT BODY, COMPLETE, CBS-2132
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	2	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	2	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	8	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	13	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	2	1102.00113.00	SWITCH, REED, ASSEMBLY
9	4	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00052.00	TANK ASSY, 2 X 3.0kW/240V, CBS-2132 XTS (**See Page 34**)
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
19	9	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
20	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
21	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
22	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
23	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
24	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
25	1	1102.00208.00	ASSEMBLY BACK PANEL, CBS-2132 AND 2142 (**See Page 36**)
26	13	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
27	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
28	1	1024.00040.00	CARD PLUG, HWD-2100
29	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
30	6	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
31	2	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
32	2	1023.00159.00	CORNER INSERT
33	1	1001.00127.00	COVER, TOP CBS-2132 AND 2142
34	1	1001.00128.00	COVER, UPPER BASE, CBS-2132 AND 2142
35	1	1402.00037.00	HARNESS, HIGH AMP, CBS-2132 UL
36	1	1402.00038.00	HARNESS, LOW AMP, CBS-2132 GRAVITY
37	2	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ın˘.218" HOLE, BRN PLUG
37	2	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ın˘.
38	1	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
39	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
40	2	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
41	3	1073.00008.00	FOOT, CBS-2130
42	3	1082.00066.00	SCREW, SOCKET HD. CAP 1/4-20 X 1/2"
43	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
44	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
45	2	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
46	2	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
47	1	1041.00002.00	LABEL , "CSD"
48	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
49	1	1065.00002.00	CONNECTOR, COPPER LUG
50	1	1044.00012.00	LABEL GROUND CE
51	2	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130



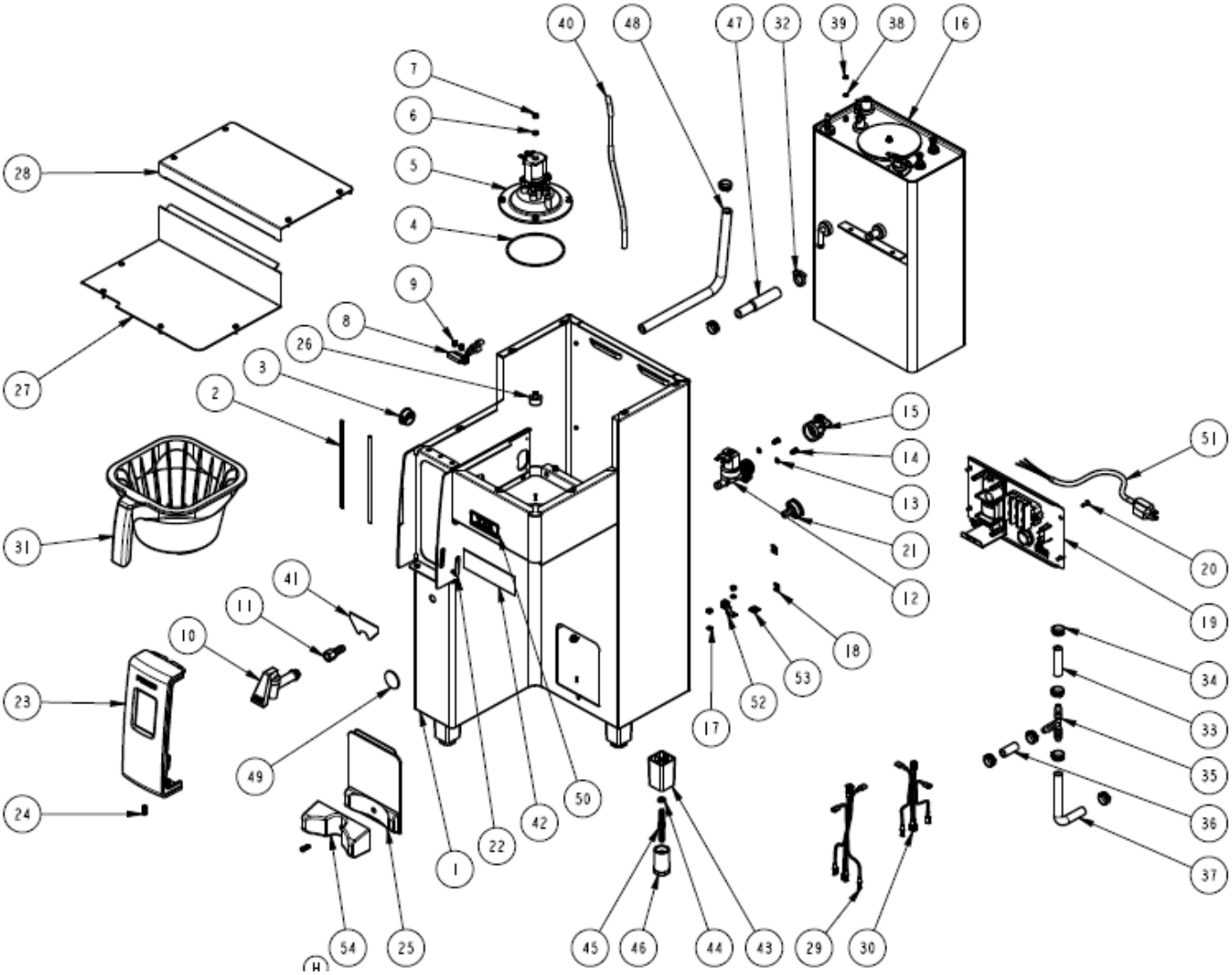
Drawing 1101.00150.00 CBS-2132 XTS 1 Gal

Drawing 1101.00150.00 CBS-2132 XTS 1 Gallon			
Ref#	**Qty**	**Part number**	**Description**
1	1	1111.00037.00	WELDMENT BODY, COMPLETE, CBS-2132
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	2	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	2	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	8	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	13	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	2	1102.00113.00	SWITCH, REED, ASSEMBLY
9	4	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00052.00	TANK ASSY, 2 X 3.0kW/240V, CBS-2132 XTS **(See Page 34)**
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
19	10	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
20	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
21	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
22	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
23	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
24	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
25	1	1102.00208.00	ASSEMBLY BACK PANEL, CBS-2132 AND 2142 **(See Page 36)**
26	13	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
27	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
28	1	1024.00040.00	CARD PLUG, HWD-2100
29	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
30	6	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
31	2	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
32	2	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130
33	2	1023.00159.00	CORNER INSERT
34	1	1001.00127.00	COVER, TOP CBS-2132 AND 2142
35	1	1001.00128.00	COVER, UPPER BASE, CBS-2132 AND 2142
36	1	1402.00037.00	HARNESS, HIGH AMP, CBS-2132 UL
37	1	1402.00038.00	HARNESS, LOW AMP, CBS-2132 GRAVITY
38	**2**	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ın˘.218" HOLE, BRN PLUG
38	**2**	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ın˘.
39	1	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
40	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
41	2	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
42	3	1023.00163.00	LEG BODY, CBS-2130
43	3	1083.00021.00	WASHER, 1/4" SCREW SIZE, SPRING LOCK
44	3	1112.00158.00	WELDMENT, LEG ROD, CBS-2130
45	3	1021.00017.00	LEG INSERT THREADED, CBS-2130
46	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
47	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
48	2	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
49	2	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
50	1	1041.00002.00	LABEL , "CSD"
51	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
52	1	1065.00002.00	CONNECTOR, COPPER LUG
53	1	1044.00012.00	LABEL GROUND CE



Drawing 1101.00152.00 CBS-2131XTS ASSEMBLY, 3 Liter

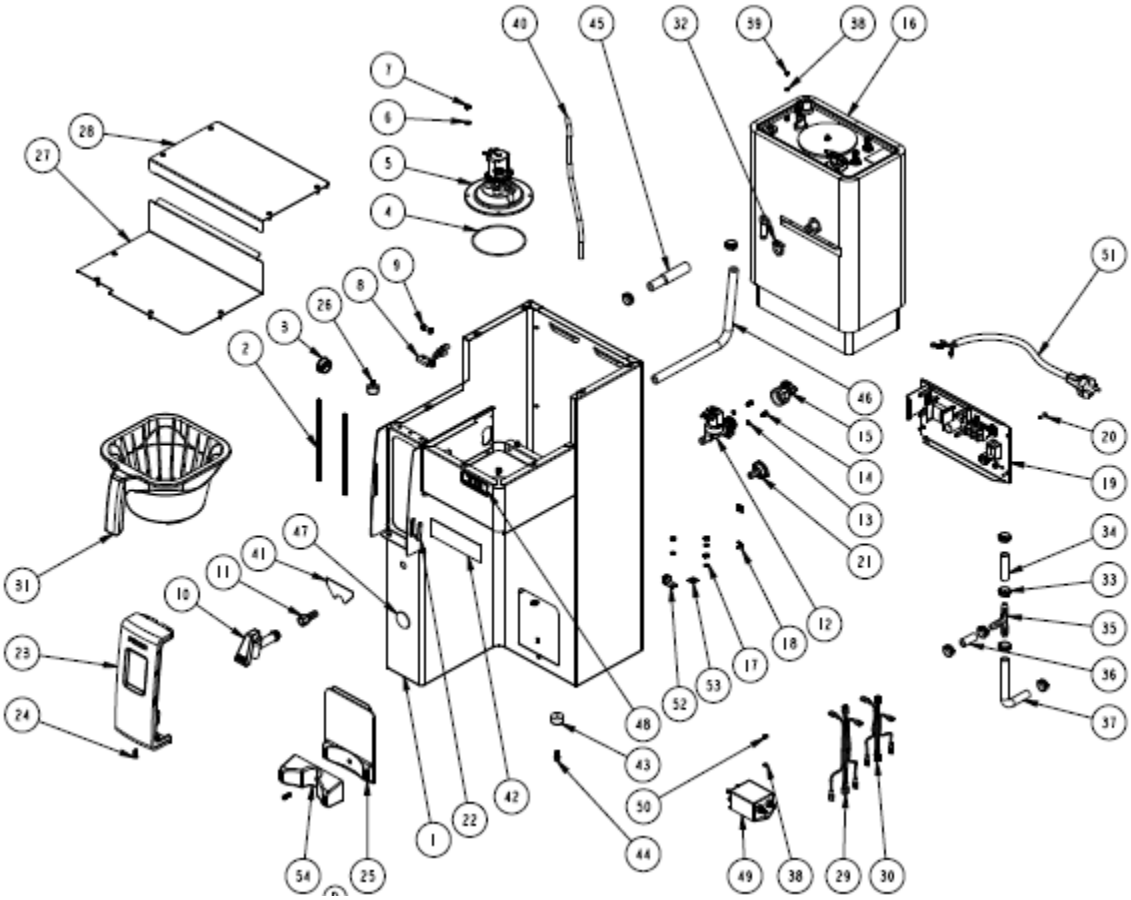
Drawing 1101.00152.00 CBS-2131XTS ASSEMBLY, 3 Liter			
Ref#	**Qty**	**Part number**	**Description**
1	1	1111.00036.00	WELDMENT BODY, COMPLETE, CBS-2131
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	1	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	9	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1102.00113.00	SWITCH, REED, ASSEMBLY
9	2	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00053.00	TANK ASSY, 2300W/120VAC, CBS-2131 XTS **(See Page 35)**
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	8	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
19	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
20	1	1102.00209.00	ASSEMBLY BACK PANEL, CBS-2131 AND 2141 **(See Page 37)**
21	12	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
22	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
23	1	1024.00040.00	CARD PLUG, HWD-2100
24	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
25	5	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
26	1	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
27	1	1023.00159.00	CORNER INSERT
28	1	1001.00126.00	COVER, UPPER BASE, CBS-2131 AND 2141
29	1	1001.00125.00	COVER, TOP CBS-2131 AND 2141
30	1	1402.00039.00	HARNESS, HIGH AMP, CBS-2131
31	1	1402.00040.00	HARNESS, LOW AMP, CBS-2131
32	1	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ıncˇ.218" HOLE, BRN PLUG
32	1	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ıncˇ.
33	1	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
34	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
35	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
36	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
37	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
38	1	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
39	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
40	1	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
41	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
42	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
43	4	1073.00008.00	FOOT, CBS-2130
44	4	1082.00066.00	SCREW, SOCKET HD. CAP 1/4-20 X 1/2"
45	1	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
46	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
47	1	1041.00002.00	LABEL , "CSD"
48	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
49	1	1102.00240.00	ASSEMBLY POWER CORD, 20A/120VAC, 5-20P NEMA PLUG
50	1	1065.00002.00	CONNECTOR, COPPER LUG
51	1	1044.00012.00	LABEL GROUND CE
52	1	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130



Drawing 1101.00151.00 CBS-2131 120vac 1 gal

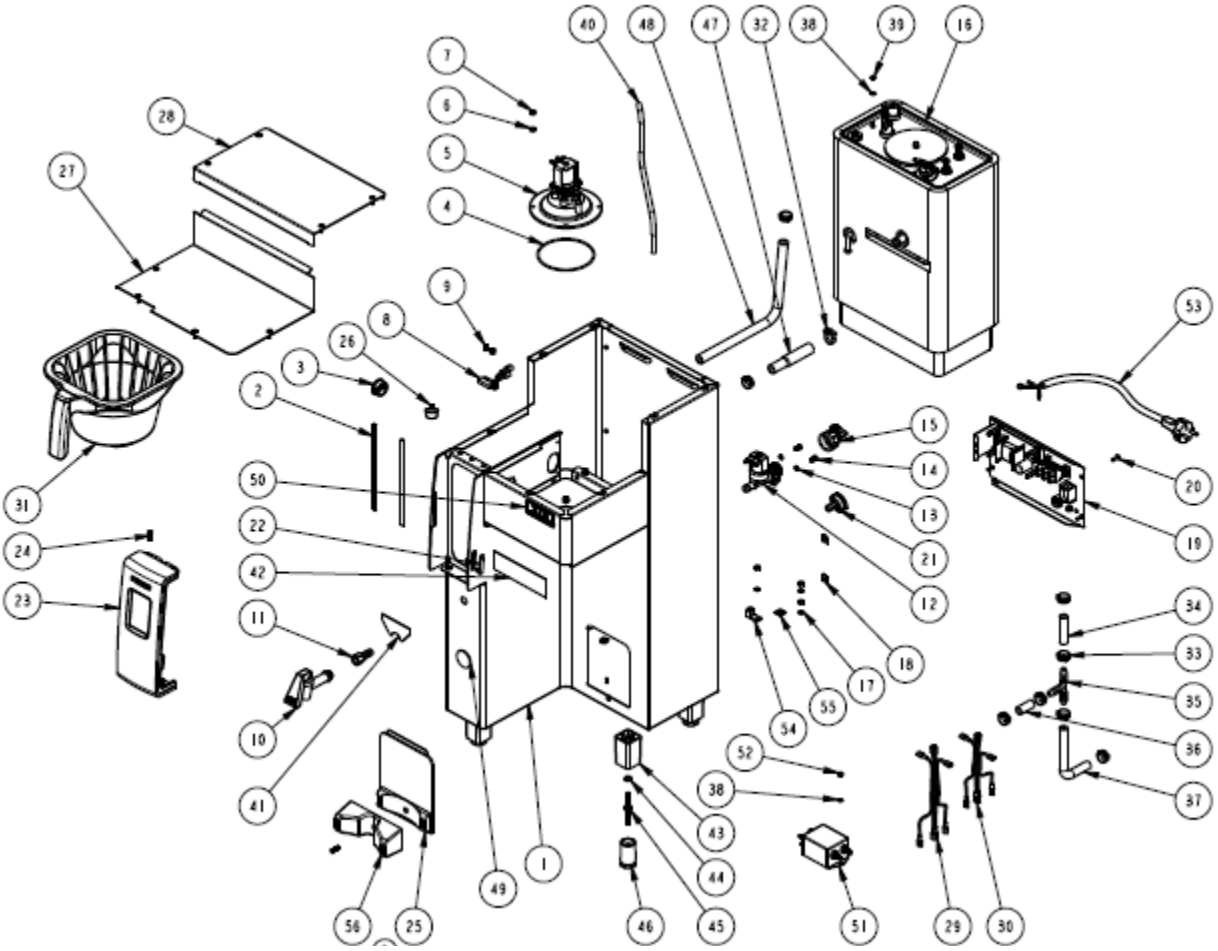
Drawing 1101.00151.00 ASSEMBLY, CBS-2131XTS, 1 GAL.			
Ref#	**Qty**	**Part number**	**Description**
1	1	1111.00036.00	WELDMENT BODY, COMPLETE, CBS-2131
2	21	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	1	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	9	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1102.00113.00	SWITCH, REED, ASSEMBLY
9	2	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00053.00	TANK ASSY, CBS-2131 XTS **(See Page 35)**
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
19	1	1102.00209.00	ASSEMBLY BACK PANEL, CBS-2131 AND 2141 **(See Page 37)**
20	12	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
21	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
22	1	1024.00040.00	CARD PLUG, HWD-2100
23	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
24	5	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
25	1	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
26	1	1023.00159.00	CORNER INSERT
27	1	1001.00126.00	COVER, UPPER BASE, CBS-2131 AND 2141
28	1	1001.00125.00	COVER, TOP CBS-2131 AND 2141
29	1	1402.00039.00	HARNESS, HIGH AMP, CBS-2131
30	1	1402.00040.00	HARNESS, LOW AMP, CBS-2131
31	1	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ıncˇ.218" HOLE, BRN PLUG
31	1	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ıncˇ.
32	1	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
33	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
34	8	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
35	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
36	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
37	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
38	1	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
39	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
40	1	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
41	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
42	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
43	4	1023.00163.00	LEG BODY, CBS-2130
44	4	1083.00021.00	WASHER, 1/4" SCREW SIZE, SPRING LOCK
45	4	1112.00158.00	WELDMENT, LEG ROD, CBS-2130
46	4	1021.00017.00	LEG INSERT THREADED, CBS-2130
47	1	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
48	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
49	1	1041.00002.00	LABEL , "CSD"
50	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
51	1	1102.00240.00	ASSEMBLY POWER CORD, 20A/120VAC, 5-20P NEMA PLUG
52	1	1065.00002.00	CONNECTOR, COPPER LUG
53	1	1044.00012.00	LABEL GROUND CE
54	1	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130

Parts diagrams, International Equipment



Drawing 1101.00189.00 EXPORT CBS-2131, CE 3kW/240VAC, 3L,

			Drawing 1101.00189.00 CBS-2131, CE 3kW/240VAC, 3L,
1	1	1111.00036.00	WELDMENT BODY, COMPLETE, CBS-2131
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	1	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	9	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1102.00113.00	SWITCH, REED, ASSEMBLY
9	2	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00056.00	TANK ASSY, 3.0kW/240V, CBS-2131 XTS **(See Page 35)**
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
19	1	1102.00213.00	ASSEMBLY, BACK PANEL, CBS-2131/41, CE **(See Page 39)**
20	12	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
21	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
22	1	1024.00040.00	CARD PLUG, HWD-2100
23	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
24	5	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
25	1	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
26	1	1023.00159.00	CORNER INSERT
27	1	1001.00126.00	COVER, UPPER BASE, CBS-2131 AND 2141
28	1	1001.00125.00	COVER, TOP CBS-2131 AND 2141
29	1	1402.00041.00	HARNESS, LOW AMP, CBS-2131 XTS, CE/UL
30	1	1402.00042.00	HARNESS, HIGH AMP, CBS-2131 XTS, CE
31	1	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ın˘.218" HOLE, BRN PLUG
31	1	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ın˘.
32	1	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
33	8	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
34	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
35	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
36	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
37	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
38	3	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
39	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
40	1	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
41	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
42	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
43	4	1073.00008.00	FOOT, CBS-2130
44	4	1082.00066.00	SCREW, SOCKET HD. CAP 1/4-20 X 1/2"
45	1	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
46	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
47	1	1041.00002.00	LABEL , "CSD"
48	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
49	1	1052.00029.00	EMI FILTER, TWO LINE 20A, 120/250 VAC
50	2	1084.00012.00	NUT, HEX, #6-32 MACHINE SCREW, 18-8 SS
51	1	1102.00238.00	ASSEMBLY POWER CORD, 16A/250VAC, EU1-16P PLUG
52	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
53	1	1044.00012.00	LABEL GROUND CE
54	1	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130

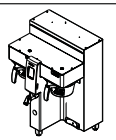


Drawing 1101.00190.00 CE EXPORT ASSS'Y., CBS-2131, 3kW/240VAC, 1 GAL.,

Drawing 1101.00190.00 CE ASSS'Y., CBS-2131, 3kW/240VAC, 1 GAL.,			
1	1	1111.00036.00	WELDMENT BODY, COMPLETE, CBS-2131
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
3	1	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
4	1	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
5	1	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
6	4	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
7	9	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1102.00113.00	SWITCH, REED, ASSEMBLY
9	2	1029.00006.00	#4-40 NYLON FINGER NUT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
11	1	1031.00003.00	FITTING, BARB 3/8'ID x 1/4" FPT
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 24VDC
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
16	1	1104.00056.00	TANK ASSY, 3.0kW/240V, CBS-2131 XTS **(See Page 35)**
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
18	11	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
19	1	1102.00213.00	ASSEMBLY, BACK PANEL, CBS-2131/41, CE **(See Page 39)**
20	12	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
21	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
22	1	1024.00040.00	CARD PLUG, HWD-2100
23	1	1102.00210.00	ASSEMBLY FRONT PANEL, CBS-2130, GRAVITY VERSION
24	5	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
25	1	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
26	1	1023.00159.00	CORNER INSERT
27	1	1001.00126.00	COVER, UPPER BASE, CBS-2131 AND 2141
28	1	1001.00125.00	COVER, TOP CBS-2131 AND 2141
29	1	1402.00041.00	HARNESS, LOW AMP, CBS-2131 XTS, CE/UL
30	1	1402.00042.00	HARNESS, HIGH AMP, CBS-2131 XTS, CE
31	1	**B014218BN2**	**BB ASSY Plastic,** 13" X 5", ın˘.218" HOLE, BRN PLUG
31	1	**B012218B1**	**BB ASSY Stainless Steel**, 13" X 5", ın˘.
32	1	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
33	8	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
34	1	1025.00060.00	TUBE, 9/16'OD X 5/16"ID X 3.25"LG
35	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
36	1	1025.00058.00	TUBE, 9/16'OD X 5/16"ID X 25.00"LG
37	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
38	3	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
39	1	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
40	1	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
41	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
42	1	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
43	4	1023.00163.00	LEG BODY, CBS-2130
44	4	1083.00021.00	WASHER, 1/4" SCREW SIZE, SPRING LOCK
45	4	1112.00158.00	WELDMENT, LEG ROD, CBS-2130
46	4	1021.00017.00	LEG INSERT THREADED, CBS-2130
47	1	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
48	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
49	1	1041.00002.00	LABEL , "CSD"
50	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
51	1	1052.00029.00	EMI FILTER, TWO LINE 20A, 120/250 VAC
52	2	1084.00012.00	NUT, HEX, #6-32 MACHINE SCREW, 18-8 SS
53	1	1102.00238.00	ASSEMBLY POWER CORD, 16A/250VAC, EU1-16P PLUG
54	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
55	1	1044.00012.00	LABEL GROUND CE
56	1	1023.00221.00	ADAPTER FOR AIRPOT, GRAY, CBS-2130

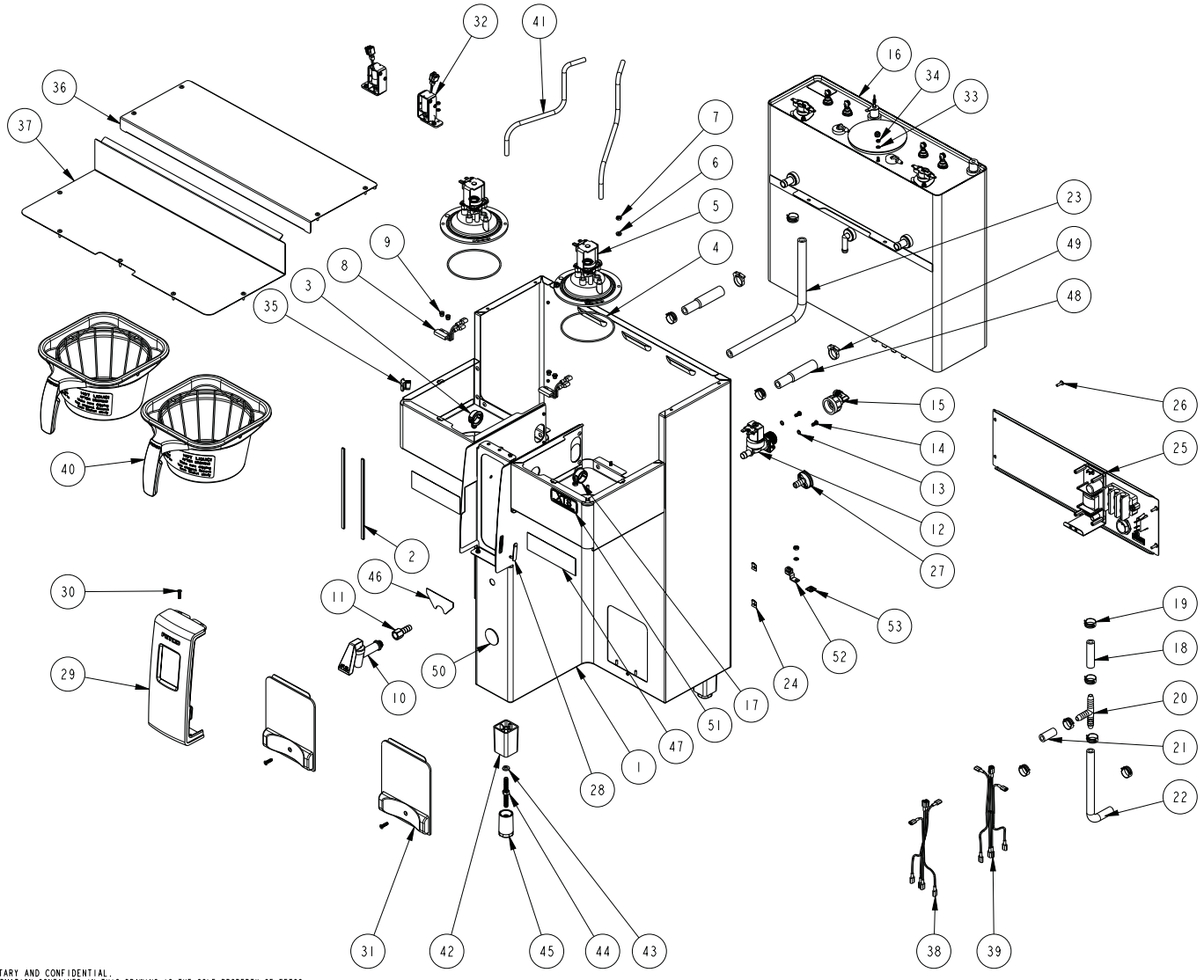
NOTES:

1. DRAWING TO BE INTERPRETED IN ACCORDANCE WITH THE CURRENT REVISION OF ASME Y14.5M.
2. TSI TO BE INTERPRETED AS THEORETICAL SHARP INTERSECTION
3. PARTS SHALL BE FREE OF ALL CONTAMINANTS INCLUDING GREASE, DIRT, MACHINING OIL AND OTHER CONTAMINANTS.
4. PARTS SHALL BE PACKAGED IN A MANNER TO PREVENT SCRATCHING, BOWING OR OTHER DAMAGE DURING SHIPMENT.



SCALE 0.031

REVISIONS				
REV	DATE	ECO NO	DESCRIPTION	BY: B
A	09/30/2014	N/A	ORIGINAL	E.FORONDA
B	02/17/2015	N/A	BB LOCK ADDED	DK



ITEM NO	QTY	PART NO	DESCRIPTION
53	1	1044.00012.00	LABEL GROUND CE
52	1	1065.00002.00	CONNECTOR, COPPER LUG
51	1	1041.00013.00	LABEL, XTS, 2130,2140 AND 2150 SERIES
50	1	1041.00002.00	LABEL , "CSD"
49	2	1086.00002.00	CLAMP, HOSE, SIZE "G" NYLON
48	2	1024.00065.00	CONNECTOR, SILICONE, TANK TO BREW VALVE
47	2	1046.00003.00	LABEL, CSD WARNING, 1.5" X 5.0"
46	1	1046.00006.00	LABEL, WARNING, "HOT WATER FAUCET"
45	3	1021.00017.00	LEG INSERT THREADED, CBS-2130
44	3	1112.00158.00	WELDMENT, LEG ROD, CBS-2130
43	3	1083.00021.00	WASHER, 1/4" SCREW SIZE, SPRING LOCK
42	3	1023.00163.00	LEG BODY, CBS-2130
41	2	1025.00078.00	TUBE, 5/16 OD x 3/16 ID x 14.00 LG.
40	2	B003218B1	BREW BASKET ASSY, 13" X 5", .218 DIA HOLE, BLACK
39	1	1402.00051.00	HARNESS LOW AMP, CBS-2142/52 XTS, CE/UL
38	1	1402.00037.00	HARNESS, HIGH AMP, CBS-2132 UL
37	1	1001.00128.00	COVER, UPPER BASE, CBS-2132 AND 2142
36	1	1001.00127.00	COVER, TOP CBS-2132 AND 2142
35	2	1023.00159.00	CORNER INSERT
34	5	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
33	5	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
32	2	1102.00219.00	ASSEMBLY, BB LOCKER, 24VDC
31	2	1102.00259.00	LOCATOR ASSEMBLY,L3S-10, GRAY, CBS-2130
30	6	1082.00058.00	SCREW, # 8-32 X 5/8, FLAT HD, PH, 18-8 SS
29	1	1102.00210.00	ASSEMBLY, FRONT PANEL, CBS-2100 XTS
28	1	1024.00040.00	CARD PLUG, HWD-2100
27	1	1023.00147.00	PLUG, TANK SERVICE DRAIN FOR 18GA AND UP BODY
26	13	1082.00017.00	SCREW, # 6-32 X 1/2" TRUSS HD PHIL., MACHINE
25	1	1102.00208.00	ASSEMBLY BACK PANEL, CBS-2132 AND 2142
24	12	1084.00011.00	NUT, CLIP ON (J-NUT), #6-32, 22-20 GA., BLK-PH FINISH
23	1	1025.00028.00	TUBE, 5/8"OD X 3/8"ID X 11"LG, HOT WATER VALVE, IN
22	1	1025.00077.00	TUBE, 9/16 OD x 5/16 ID x 6.50 LG.
21	1	1025.00058.00	TUBE, 9/16"OD X 5/16"ID X 25.00"LG
20	1	1029.00002.00	FITTING, HOSE BARB TEE, SIZE 3/8" , NYLON
19	10	1086.00003.00	UNICLAMP, 15.9 HOSE OD CLAMP
18	1	1025.00060.00	TUBE, 9/16"OD X 5/16"ID X 3.25"LG
17	5	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
16	1	1104.00052.00	TANK ASSY, 2 X 3.0kW/240V, CBS-2132 XTS
15	1	1102.00243.00	ADAPTER ASSY, 3/4" BSP x 1/4" NPT x 3/8" TUBE
14	2	1082.00010.00	SCREW, M4x10 ZINC PLATED PAN PHILLIPS MACHINE
13	2	1083.00005.00	WASHER, M4 18-8 INTERNAL TOOTH LOCKWASHER
12	1	1057.00043.00	SOLENOID VALVE, SINGLE, 180 DEG, 240VDC
11	1	1031.00003.00	FITTING, BARB 3/8"ID x 1/4" FPT
10	1	1071.00010.00	FAUCET HPSC-BR-8 REGULAR HANDLE
9	4	1029.00006.00	#4-40 NYLON FINGER NUT
8	2	1102.00113.00	SWITCH, REED, ASSEMBLY
7	13	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
6	8	1083.00010.00	WASHER, #10 SCREW W/NEOPRENE-BONDED SEAL
5	2	1102.00203.00	ASSEMBLY, SPRAY HOUSING, DSVP11 DESIGN
4	2	1024.00063.00	O-RING, 3 15/16" x 3/32" CS, DASH # 154, BUNA-N, DURO-A50
3	2	1086.00004.00	BUSHING, SNAP, 1" MOUNTING HOLE
2	2	1024.00049.00	EDGE PROTECTOR, 7.00"LG, CBS-2130
1	1	1111.00062.00	WELDMENT BODY, COMPLETE, CBS-2132 XTS, BB LOCK

BILL OF MATERIALS

TOLERANCES
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS IN INCHES
ALL DECIMAL ± .005" ANGULAR ± 1/2°
THIRD-ANGLE

FETCO FOOD EQUIPMENT TECHNOLOGIES COMPANY
600 ROSE ROAD, LAKE ZURICH, IL 60047. USA
PHONE: (800) 338-2699 (847) 719-3002
E-MAIL: engineering@fetco.com www.fetco.com

DRAWING NAME: ASS'Y., CBS-2132, 2 X 3kW/240VAC, 1G, NO BYPASS, MBB, RT

CREATED BY:	DATE	DRAWING NO.
E.FORONDA	09/30/2014	1101.00226.00
DRAWING BY: E.FORONDA	SCALE 0.125	
APP'D BY: AG	SHEETS 1 of 2	REVISION B

MATERIAL	GAUGE	FINISH
N/A	N/A	N/A

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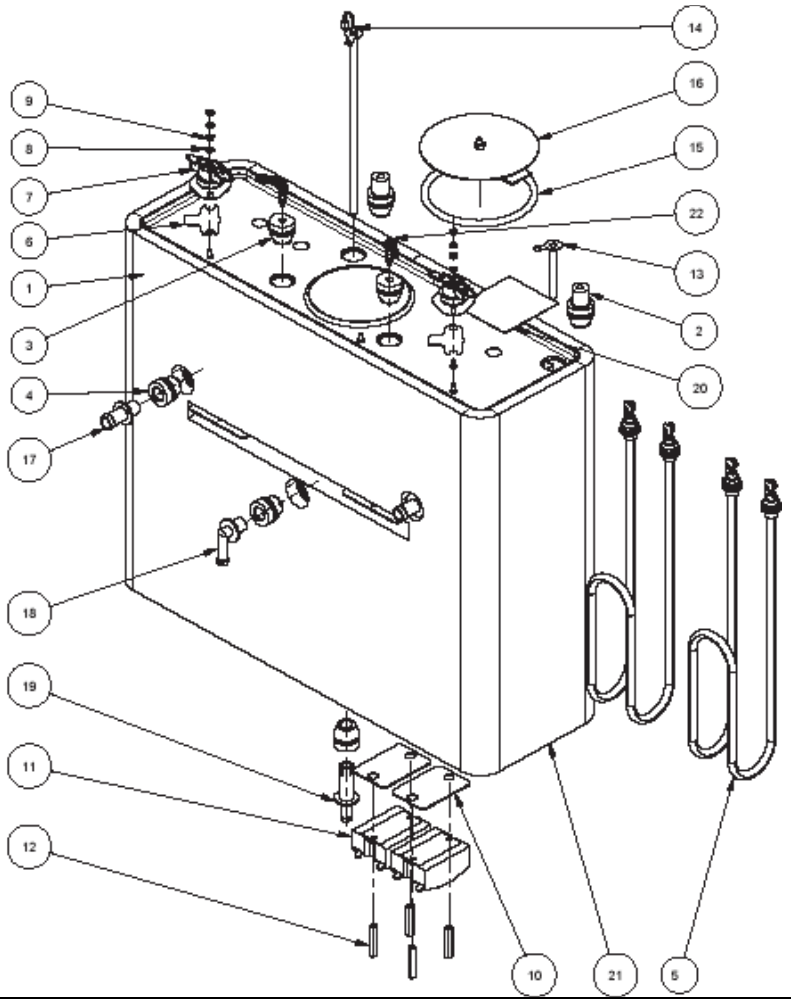
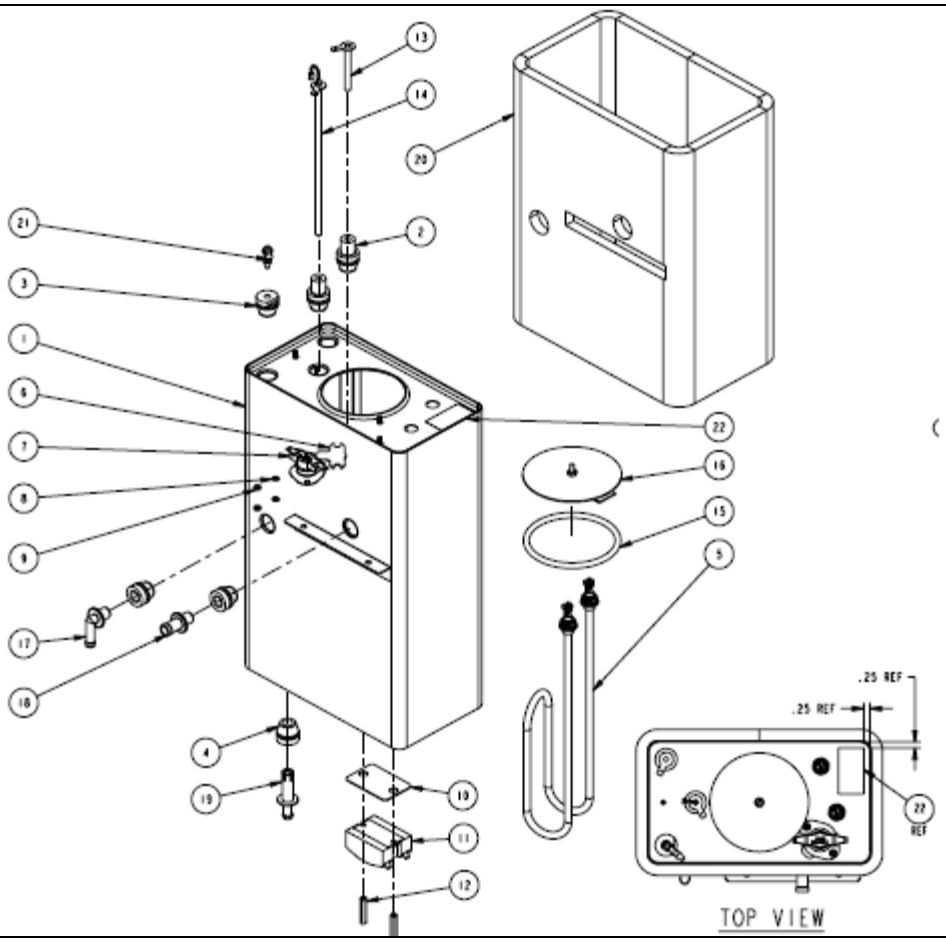
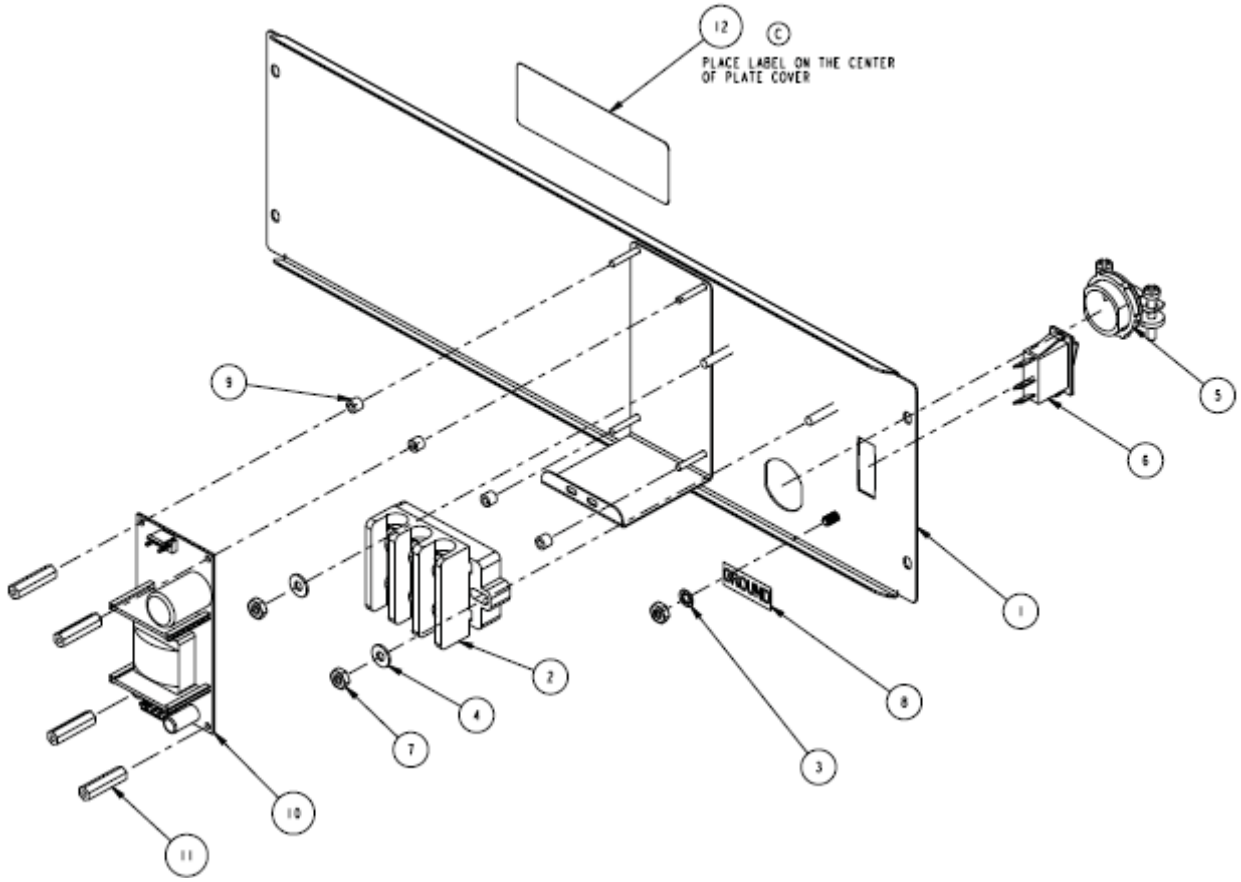


TANK ASSY, CBS-2132XTS Drawing 1104.00052.00 , 1104.00057.00			
Ref#	**Qty**	**Part number**	**Description**
1	1	1114.00081.00	WELDMENT TANK CBS-2132XTS, GROMMET DESIGN
2	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
3	2	1024.00062.00	GROMMET, SHORT, SILICONE, LEVEL AND TEMP PROBE
4	4	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
5	2	1107.00019.00	HEATER ASSEMBLY, IMMERSION 2300W/120VAC
5	2	1107.00021.00	HEATER ASSEMBLY, IMMERSION 1500W/120VAC
5	2	1107.00022.00	HEATER ASSEMBLY, IMMERSION 1700W/120VAC
5	2	1107.00020.00	HEATER ASSEMBLY, IMMERSION 2300W/240VAC
5	2	1107.00018.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
6	2	1003.00005.00	BRACKET, ONE SHOT THERMOSTAT
7	2	1053.00004.00	THERMOSTAT, SINGLE SHOT, 25A
8	4	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
9	4	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
10	2	1003.00140.00	ALUMINUM BRACKET FOR SSR
11	2	1052.00014.00	ASSEMBLY RELAY, SOLID STATE, 25A/230V
12	4	1081.00042.00	STANDOFF, 6-32 x1.25 LG.,1/4 HEX WIDTH
13	1	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100
15	1	1024.00007.00	O-RING, DASH #344, TANK COVER
16	1	1102.00007.00	TANK COVER ASSEMBLY
17	2	1023.00167.00	FITTING, BREW, GROMMET DESIGN
18	1	1023.00183.00	FITTING, DILUTION, TBS-2121
19	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
20	1	1044.00004.00	LABEL, DANGER, HIGH VOLTAGE
21	1	1022.00064.00	INSULATION TANK, ONE PIECE, CBS-2132XTS
22	2	1029.00023.00	FITTING, SINGLE BARBED ELBOW, 1/4", KYNAR

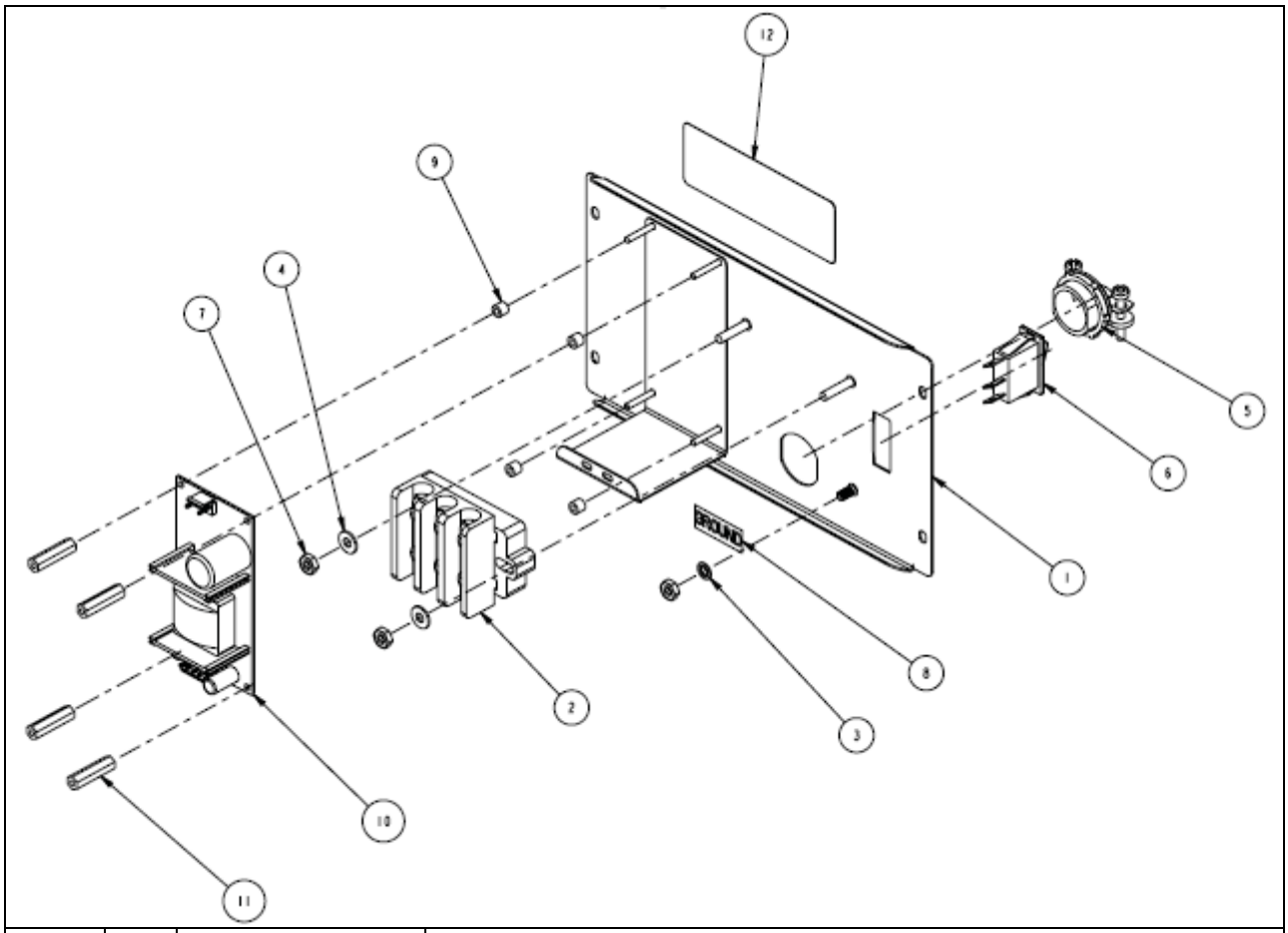


Drawing 1104.00053.00 , covers 1104.00056.00 TANK ASSY, CBS-2131XTS

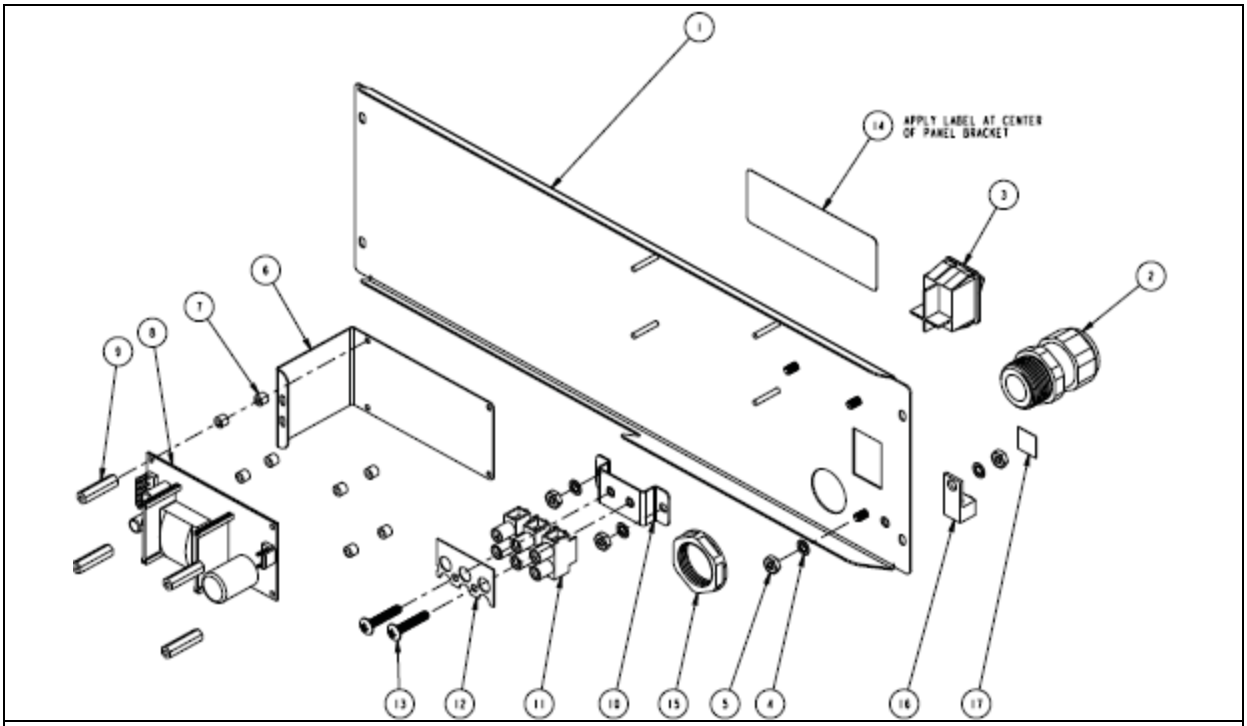
Ref#	Qty	Part number	Description
1	1	1114.00080.00	WELDMENT TANK CBS-2131XTS, GROMMET DESIGN
2	2	1024.00053.00	LEVEL AND TEMP PROBE GROMMET
3	1	1024.00062.00	GROMMET, SHORT, SILICONE, LEVEL AND TEMP PROBE
4	3	1024.00050.00	GROMMET, SILICONE, 11.4mm ID
5	1	1107.00019.00	HEATER ASSEMBLY, IMMERSION 2300W/120VAC
5	1	1107.00021.00	HEATER ASSEMBLY, IMMERSION 1500W/120VAC
5	1	1107.00022.00	HEATER ASSEMBLY, IMMERSION 1700W/120VAC
5	1	1107.00018.00	HEATER ASSEMBLY, IMMERSION 3000W/240VAC
6	1	1003.00005.00	BRACKET, ONE SHOT THERMOSTAT
7	1	1053.00003.00	THERMOSTAT, SINGLE SHOT, 240V/40A
8	2	1083.00009.00	WASHER, #6 SCREW , INTL TOOTH LOCKWASHER
9	2	1084.00010.00	NUT, HEX, #6-32, UNDERSIZED, ZINC PLATED
10	1	1003.00140.00	ALUMINUM BRACKET FOR SSR
11	1	1052.00014.00	ASSEMBLY RELAY, SOLID STATE, 25A/230V **NOT CE**
11	1	1052.00033.00	RELAY, SOLID STATE, 50A/480VAC, W/BUILD IN VARISTOR **CE**
12	2	1081.00042.00	STANDOFF, 6-32 x1.25 LG.,1/4 HEX WIDTH
13	1	1112.00002.00	PROBE WELDMENT, WATER LEVEL 2.25" LG
14	1	1102.00161.00	PROBE ASSEMBLY, TEMP. AND LLC, HWD-2100
15	1	1024.00007.00	O-RING, DASH #344, TANK COVER
16	1	1102.00007.00	TANK COVER ASSEMBLY
17	1	1023.00183.00	FITTING, DILUTION, TBS-2121
18	1	1023.00167.00	FITTING, BREW, GROMMET DESIGN
19	1	1023.00166.00	FITTING, COLD WATER INLET, GROMMET DESIGN
20	1	1022.00063.00	TANK INSULATION, CBS-2131XTSe, GROMMET DESIGN
21	1	1029.00023.00	FITTING, SINGLE BARBED ELBOW, 1/4", KYNAR
22	1	1044.00004.00	LABEL, WARNING-HIGH VOLTAGE



			BACK PANEL ASSEMBLY, CBS-2132XTS Drawing 1102.00208.00
Ref	#	Part Number	Name
1	1	1112.00227.00	WELDMENT, BACK COVER CBS-2132 AND 2142
2	1	1052.00002.00	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP
3	1	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
4	2	1083.00016.00	WASHER, #8 SCREW SIZE, FLAT
5	1	1086.00008.00	CONNECTOR, CABLE CLAMP, 3/4"
6	1	1058.00020.00	SWITCH, PWR ROCKER RED, ILLUM. 250VAC
7	3	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1044.00003.00	LABEL GROUND
9	4	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P
10	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
11	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
12	1	1046.00030.00	LABEL WARNING, DISCONNECT FROM POWER SOURCE

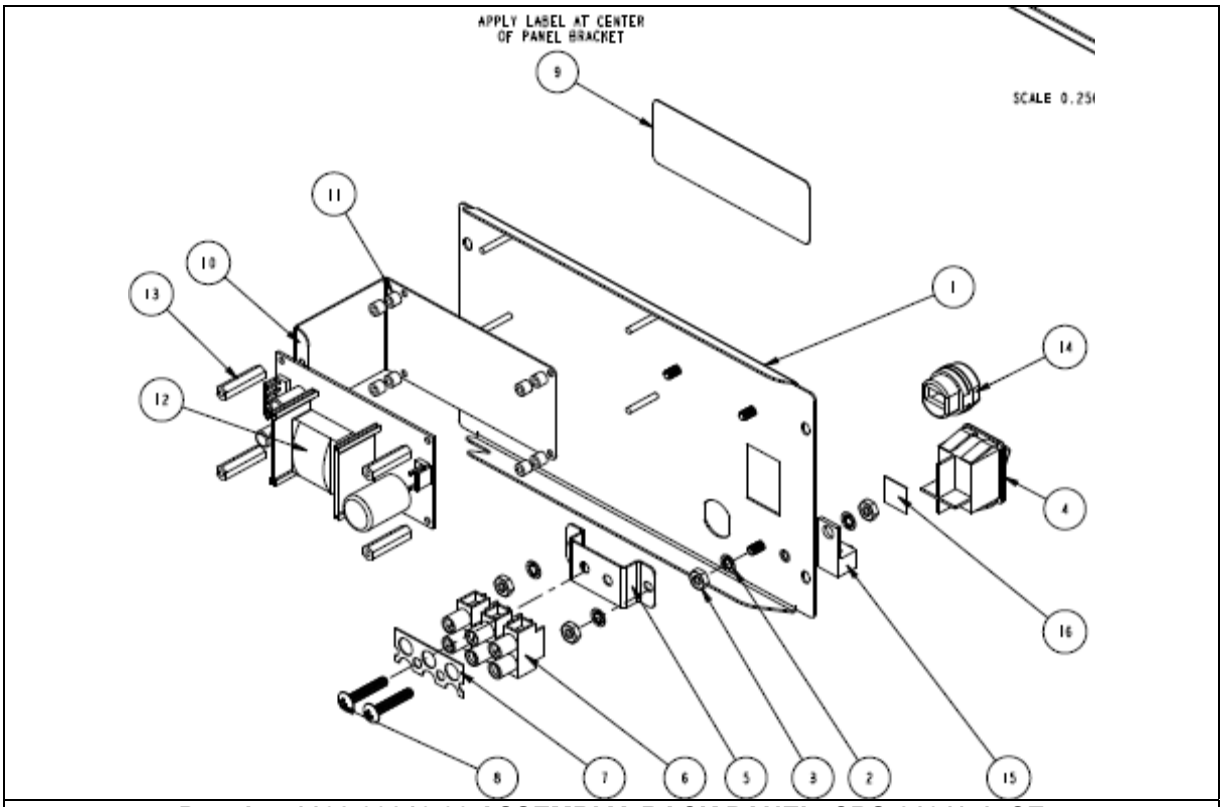


			BACK PANEL ASSEMBLY, CBS-2131XTS Drawing 1102.00209.00
Ref	#	Part Number	Name
1	1	1112.00226.00	WELDMENT BACK COVER 2131 AND 2141
2	1	1052.00002.00	TERMINAL BLOCK, 3 POLE, W/ MARKING STRIP
3	1	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
4	2	1083.00016.00	WASHER, #8 SCREW SIZE, FLAT
5	1	1086.00008.00	CONNECTOR, CABLE CLAMP, 3/4"
6	1	1058.00020.00	SWITCH, PWR ROCKER RED, ILLUM. 250VAC
7	3	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
8	1	1044.00003.00	LABEL GROUND
9	4	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P
10	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
11	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
12	1	1046.00030.00	LABEL WARNING, DISCONNECT FROM POWER SOURCE



Drawing 1102.00218.00 ASSEMBLY, BACK PANEL, CBS-2132/42 CE

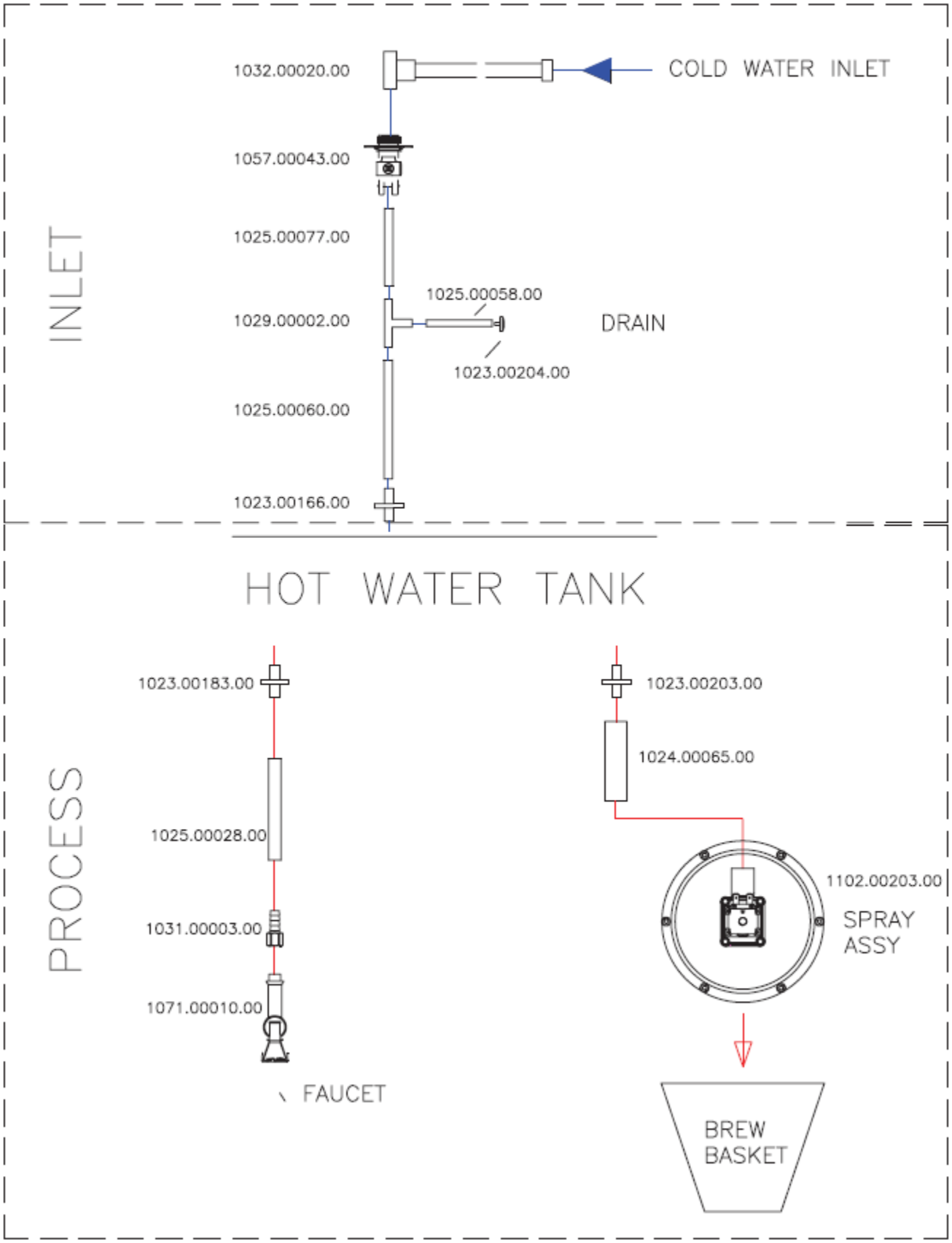
Ref	#	Part Number	Name
1	1	1112.00245.00	WELDMENT, BACK COVER,CBS-2132, 2142 EU
2	1	1086.00031.00	BUSHING, STRAIN RELIEF, BLACK, .354"-.630"
3	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
4	4	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
5	4	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
6	1	1003.00170.00	BRACKET, GUARD
7	8	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P
8	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
9	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
10	1	1112.00246.00	WELDMENT BRACKET TERMINAL BLOCK, 3 POLE
11	1	1052.00022.00	EUROSTRIP HE6 TERM. BLK., 3 POLE, 40AMP,10-20 TERM. BLK.
12	1	1052.00025.00	PLATE, MARKING #BS1016E
13	2	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
14	1	1046.00030.00	LABEL WARNING, DISCONNECT FROM POWER SOURCE
15	1	1086.00032.00	LOCKNUT, HEX BLACK, FOR SKINTOP RELIEF
16	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
17	1	1044.00013.00	LABEL EQUIPOTENTIALITY CE

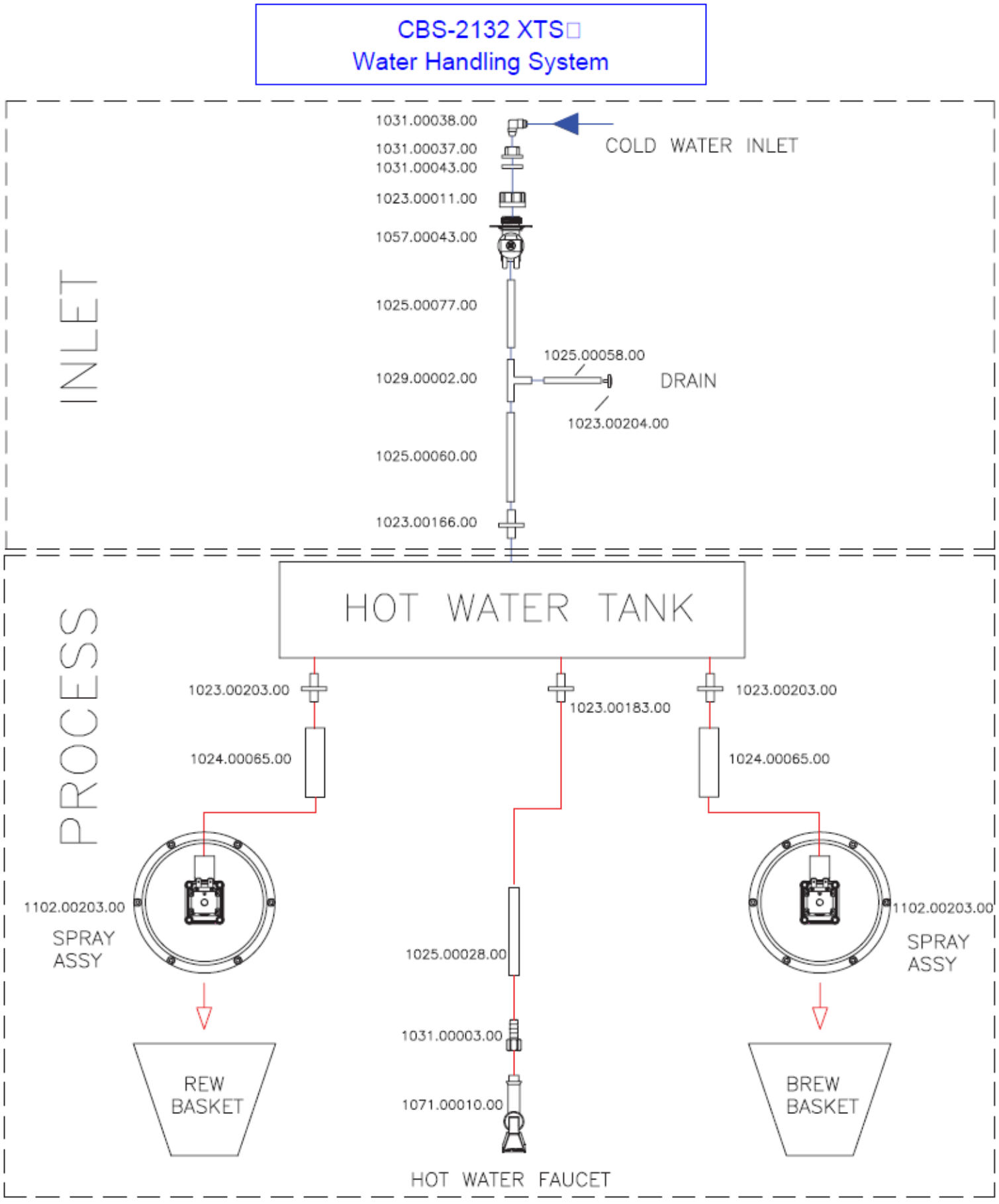


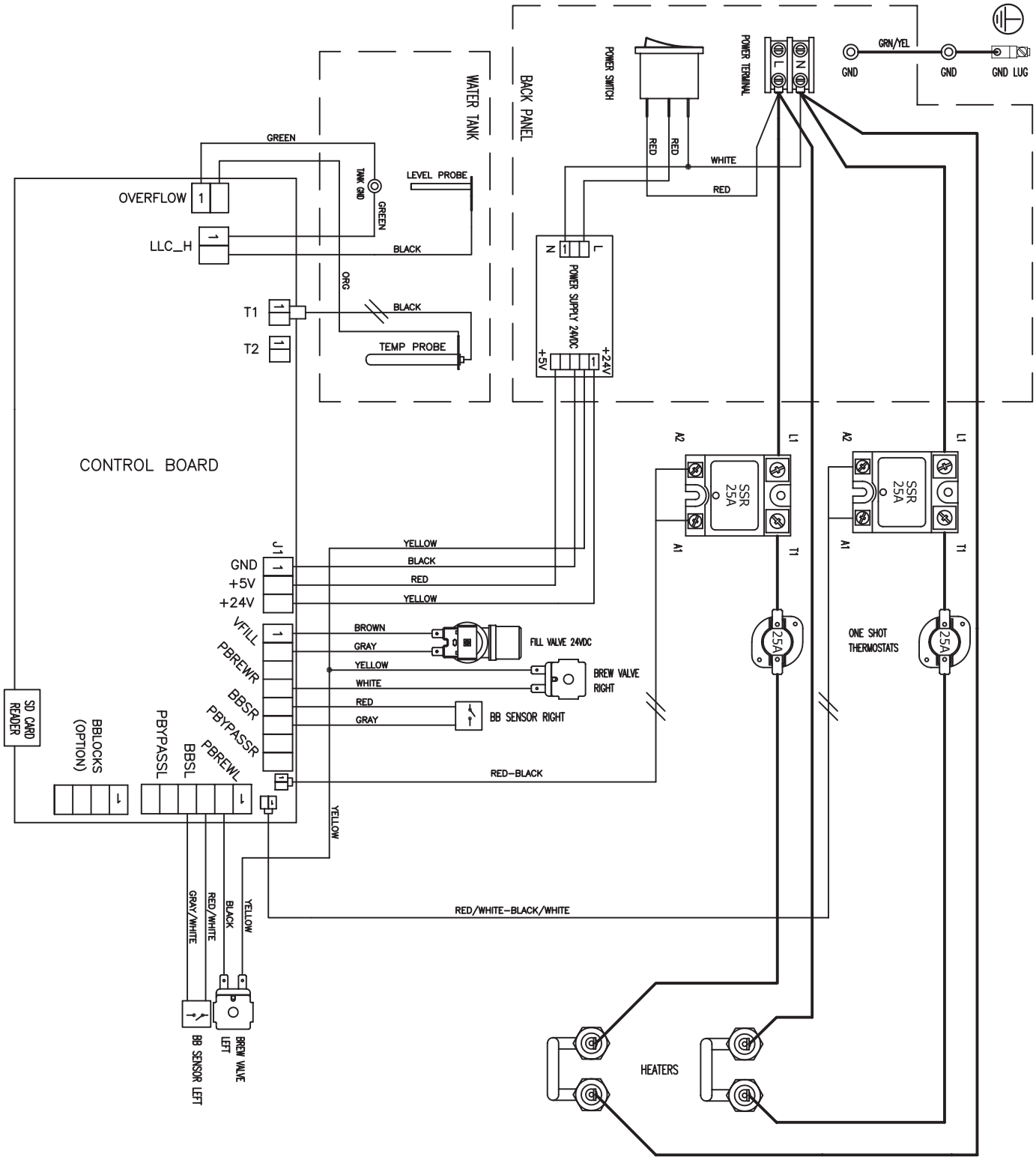
Drawing 1102.00213.00 ASSEMBLY, BACK PANEL, CBS-2131/41, CE

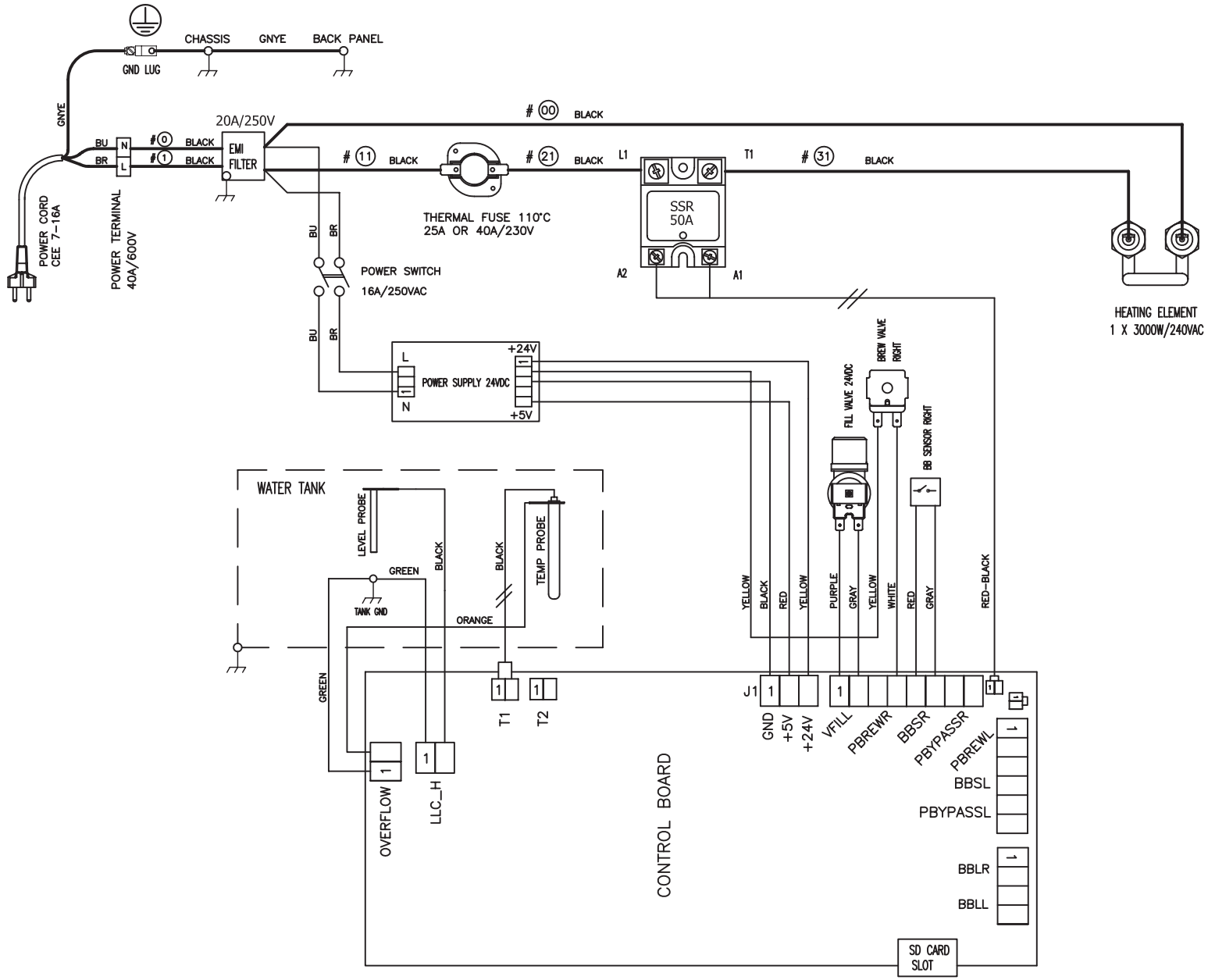
1	1	1112.00236.00	WELDMENT BACK COVER, CBS-2131, 41 EU
2	4	1083.00011.00	WASHER, #8 SCREW SIZE, INTERNAL TOOTH LOCK
3	4	1084.00006.00	NUT, 8-32 18-8 HEX MACHINE SCREW
4	1	1058.00024.00	SWITCH, POWER, DOUBLE POLE, 16A, 125/250 VAC
5	1	1112.00246.00	WELDMENT BRACKET TERMINAL BLOCK, 3 POLE
6	1	1052.00022.00	EUROSTRIP HE6 TERM. BLK., 3 POLE, 40AMP,10-20 TERM. BLK.
7	1	1052.00025.00	MARKING PLATE BLANK FOR EUROSTRIP HE10, 1.750" LG.
8	2	1082.00082.00	SCREW, PHILLIP HD., 8-32 THREAD
9	1	1046.00030.00	LABEL WARNING, DISCONNECT FROM POWER SOURCE
10	1	1003.00170.00	BRACKET, GUARD
11	8	1081.00006.00	SPACER, 6MM OD x 3.2MM ID x 5MM LG, Z/P
12	1	1052.00001.00	POWER SUPPLY, 90-264VAC/24VDC, 1.8A
13	4	1029.00012.00	SPACER, .25" HEX X 1" LG, FEM #4-40 THREAD
14	1	1086.00029.00	BUSHING, STRAIN RELIEF, .360"-.430" DIA CABLE
15	1	1065.00009.00	GROUND LUG CONNECTOR, 14-2 AWG, ALUMINUM
16	1	1044.00013.00	LABEL EQUIPOTENTIALITY CE

CBS-2131XTS□
Water Handling System




CBS-2132 XTS□
Water Handling System
INLET
1031.00038.00
1031.00037.00
1031.00043.00
1023.00011.00
1057.00043.00
COLD WATER INLET
1025.00077.00
1025.00058.00
1029.00002.00
DRAIN
1023.00204.00
1025.00060.00
1023.00166.00
PROCESS
HOT WATER TANK
1023.00203.00
1023.00183.00
1023.00203.00
1024.00065.00
1024.00065.00
1102.00203.00
SPRAY ASSY
1102.00203.00
SPRAY ASSY
1025.00028.00
1031.00003.00
1071.00010.00
REW BASKET
BREW BASKET
HOT WATER FAUCET


WATER TANK
BACK PANEL
POWER SWITCH
POWER TERMINAL
L
N
GRN/YEL
GND
GND
GND LUG
RED
RED
WHITE
RED
GREEN
TANK GND
GREEN
LEVEL PROBE
OVERFLOW
LLC_H
BLACK
ORG
T1
T2
BLACK
TEMP PROBE
N
L
POWER SUPPLY 24VDC
+5V
+24V
CONTROL BOARD
A2
L1
SSR 25A
A1
T1
A2
L1
SSR 25A
A1
T1
J1
GND
+5V
+24V
YELLOW
BLACK
RED
YELLOW
VFILL
PBREWR
BBSR
PBYPASSR
PBREWL
BROWN
GRAY
FILL VALVE 24VDC
YELLOW
WHITE
BREW VALVE RIGHT
RED
GRAY
BB SENSOR RIGHT
RED-BLACK
25A
ONE SHOT THERMOSTATS
25A
SD CARD READER
BBLOCKS (OPTION)
PBYPASSL
BBSL
YELLOW
RED/WHITE-BLACK/WHITE
GRAY/WHITE
RED/WHITE
BLACK
YELLOW
BB SENSOR LEFT
BREW VALVE LEFT
HEATERS



CBS-2131 XTS

HEATER CONFIGURATION	VOLTAGE	PH	WIRES	KW	MAX AMP DRAW
1x3.0kW/240V	230	1	L, N, PE	2.8	12.4

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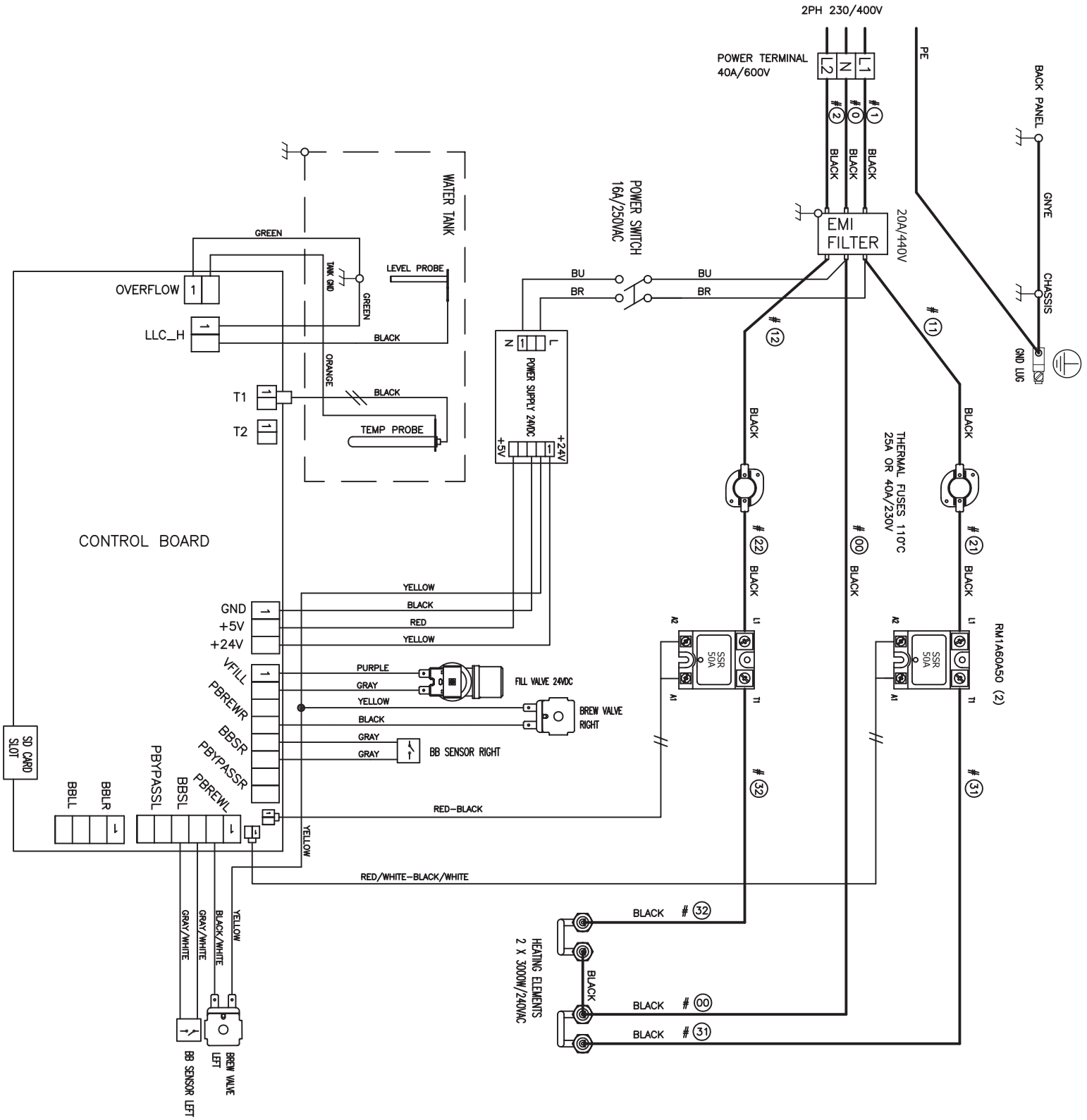
EXCEPT AS NOTED	NO.	DATE	BY			
DECIMAL +/_ .005	A	12-10-13	AG	DWG. NAME: WIRING, CBS-2131 XTS, 1PH, CE		
FRACTIONAL +/- 1/64"	B	06-20-14	AG			
ANGULAR +/- 1/2 DEG	C			DRAWN BY AG	SCALE N/A	MATERIAL N/A
	D			CHK'D SZ	SIZE A	DRAWING NO. 1401.00079.00
	E			APP'D LW	DATE 12-10-2013	

REVISIONS					A
REV	DATE	ECO NO	DESCRIPTION	BY:	
A	12/10/2013	N/A	ORIGINAL	AG	



CBS-2132 XTS

HEATER CONFIGURATION	VOLTAGE	PH	WIRES	KW	MAX AMP DRAW
2x3.0kW/240V	230/400	2	2L, N, PE	5.6	12.4

TOLERANCES	REVISIONS			FETCO®	FOOD EQUIPMENT TECHNOLOGY COMPANY 600 ROSE RD. LAKE ZURICH, IL 60047 PHONE: 847-719-3000, FAX: 847-719-3001 WWW.FETCO.COM
EXCEPT AS NOTED	NO.	DATE	BY		
DECIMAL +/- .005	A	12-10-13	AG	DWG. NAME: WIRING, CBS-2132 XTS, 2PH, CE	
FRACTIONAL +/- 1/64"	B				
ANGULAR +/- 1/2 DEG	C			DRAWN BY AG / SCALE N/A / MATERIAL N/A	
	D			CHK'D LW / SIZE A / DRAWING NO.	
	E			APP'D LW / DATE 12-10-2013	1401.00078.00

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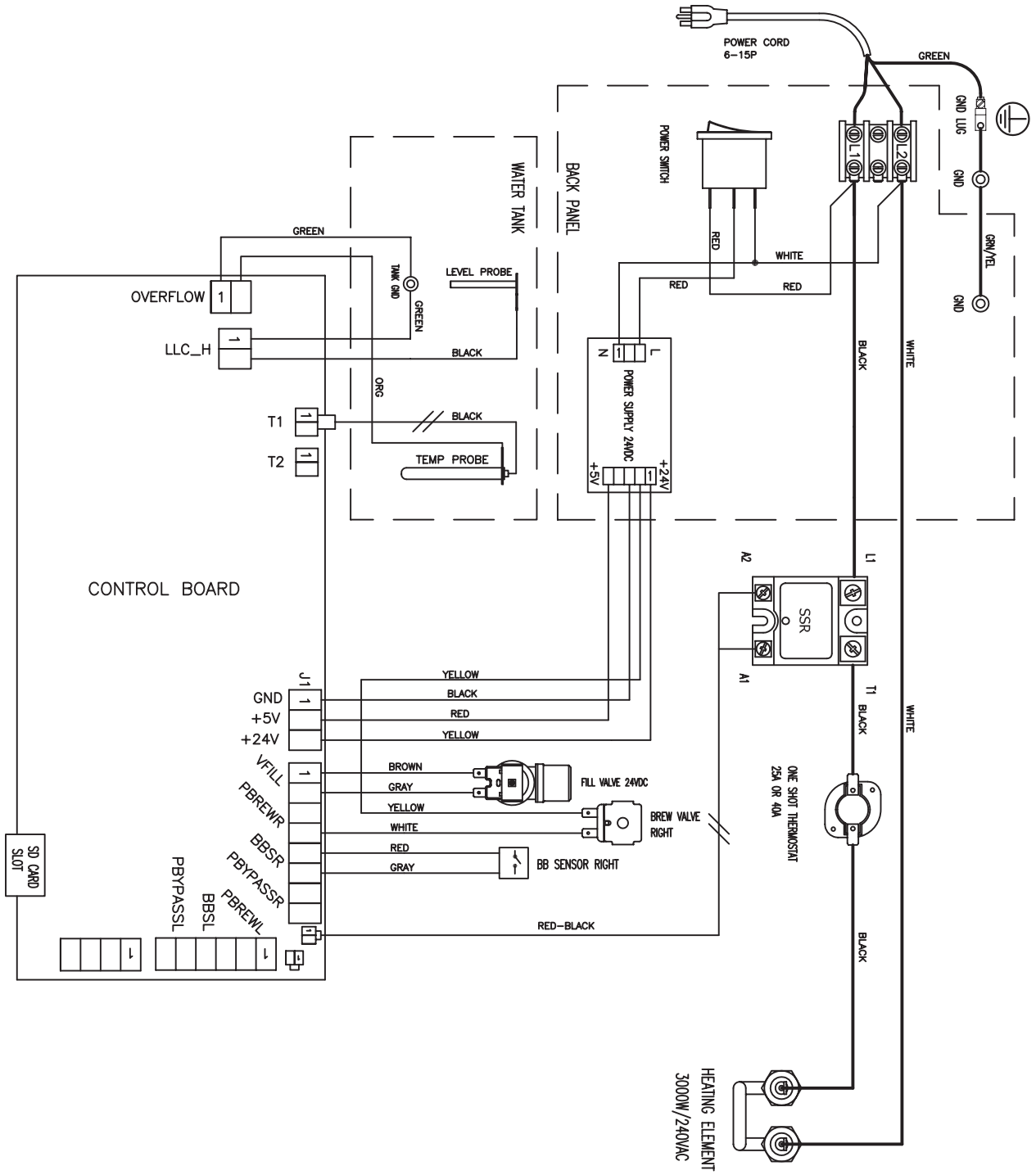
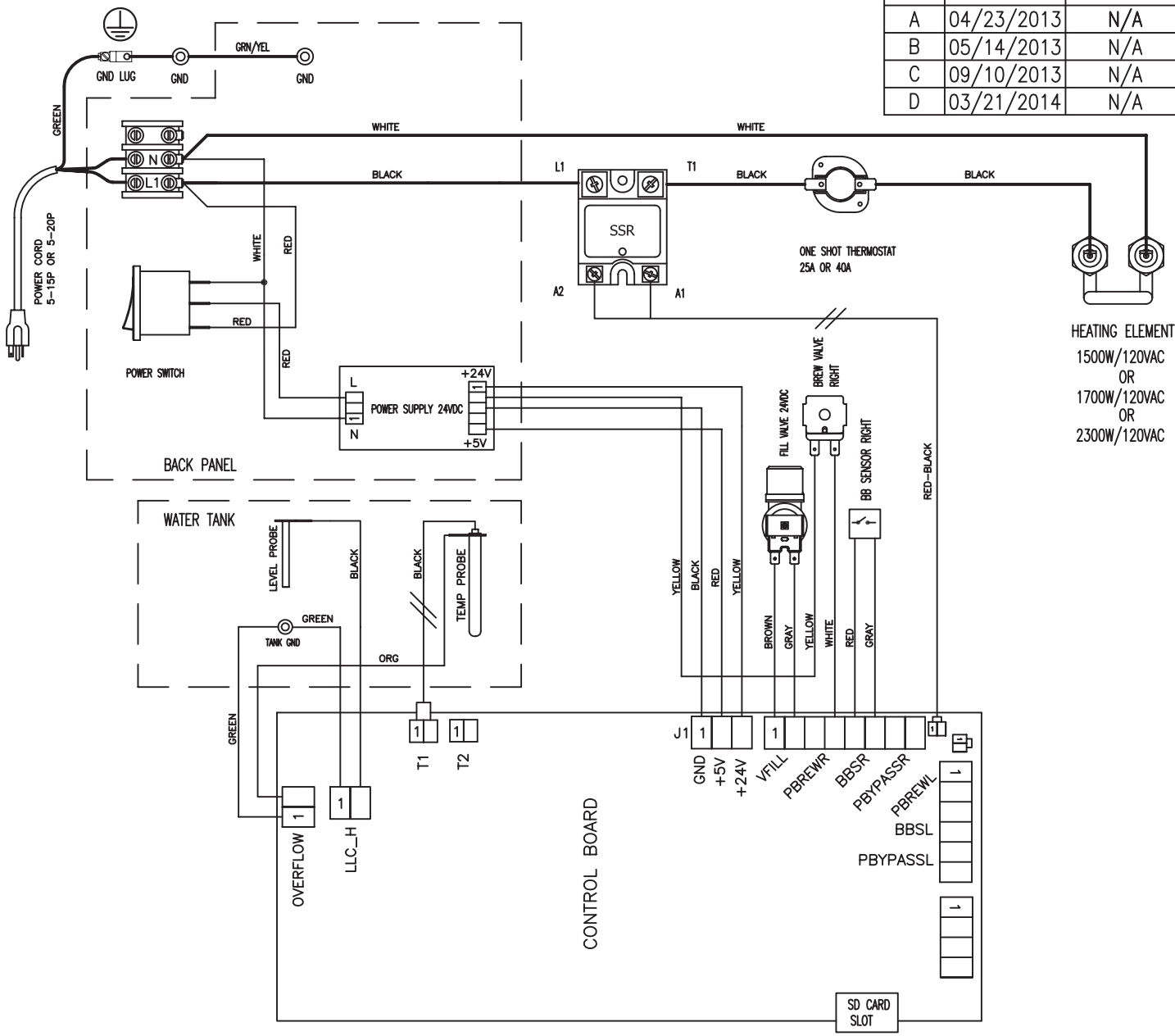


REVISIONS				
REV	DATE	ECO NO	DESCRIPTION	BY:
A	04/23/2013	N/A	ORIGINAL	AG
B	05/14/2013	N/A	REVISED CONNECTIONS	AS
C	09/10/2013	N/A	REVISED SCHEMATIC	AG
D	03/21/2014	N/A	REVISED SCHEMATIC	AG

D



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EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL	A	04-23-13	AG	DWG. NAME:	WIRING, CBS-2131-XTS, L1, N+GND, 1 HEATER		
+/_ .005	B	05-14-13	AS				
FRACTIONAL	C	09-10-13	AG	DRAWN BY AG	SCALE N/A	MATERIAL N/A	
+/- 1/64"	D	03-21-14	AG	CHK'D SZ	SIZE A	DRAWING NO.	
ANGULAR	E			APP'D LW	DATE 04-23-2013	1401.00051.00	
+/- 1/2 DEG							

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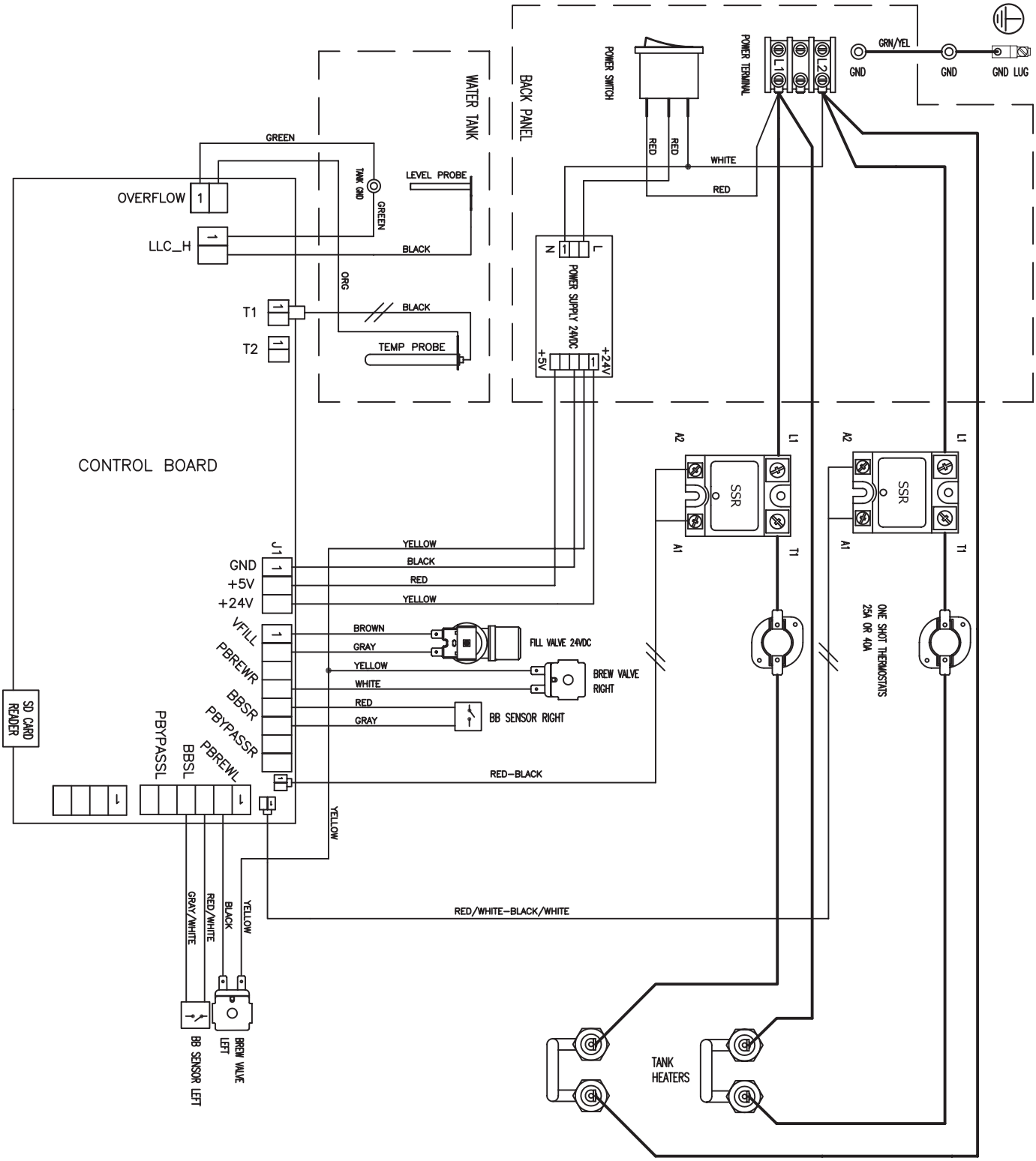
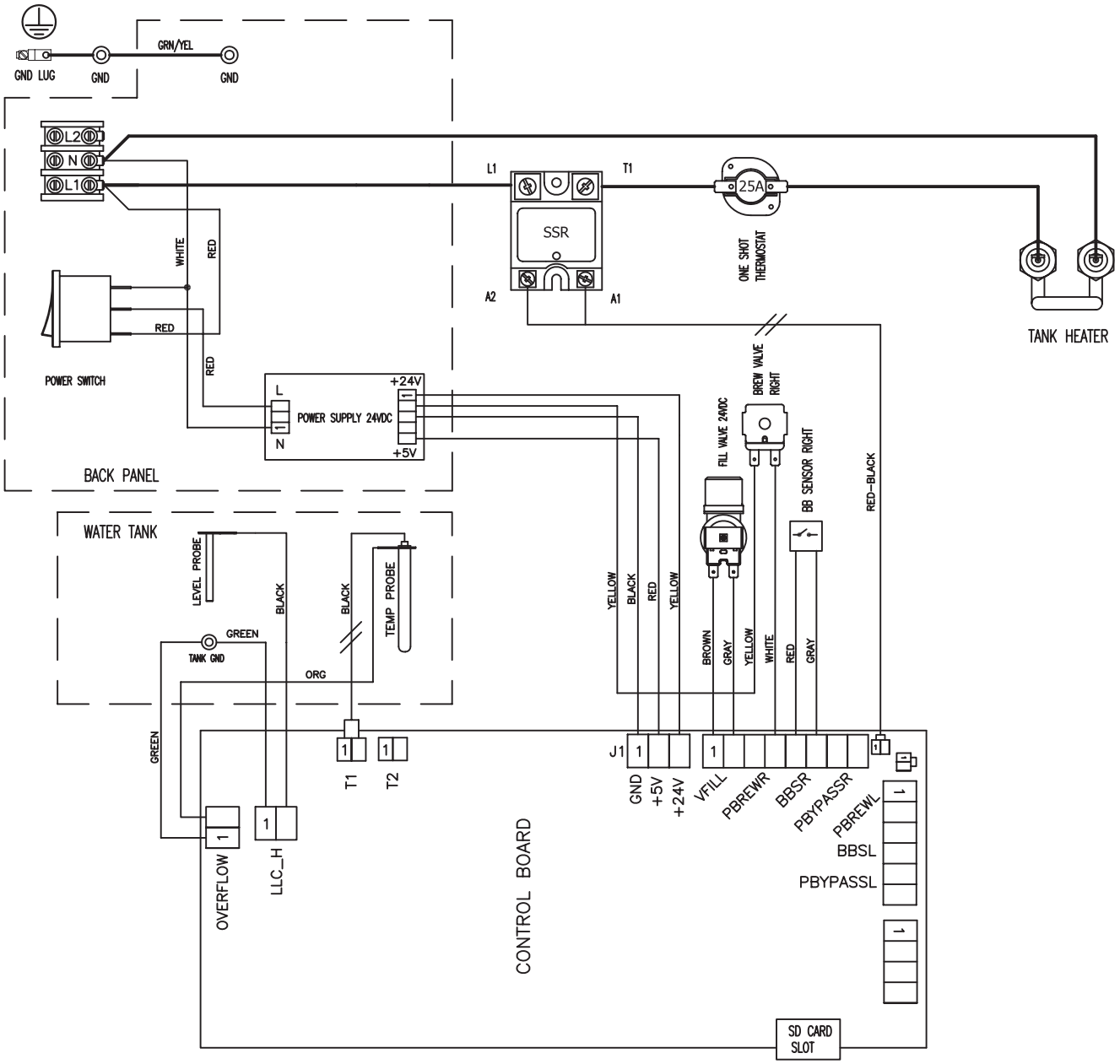

WATER TANK
BACK PANEL
POWER SWITCH
POWER TERMINAL
L1
L2
GRN/YEL
GND
GND
GND LUG
RED
RED
WHITE
RED
GREEN
TANK GND
GREEN
LEVEL PROBE
OVERFLOW
LLC_H
BLACK
ORG
T1
T2
BLACK
TEMP PROBE
N
L
POWER SUPPLY 24VDC
+5V
+24V
CONTROL BOARD
A2
L1
SSR
A1
T1
A2
L1
SSR
A1
T1
ONE SHOT THERMOSTATS
25A OR 40A
J1
GND
+5V
+24V
YELLOW
BLACK
RED
YELLOW
VFILL
PBREWR
BBSR
PBYPASSR
PBREWL
BROWN
GRAY
FILL VALVE 24VDC
YELLOW
WHITE
BREW VALVE RIGHT
RED
GRAY
BB SENSOR RIGHT
SD CARD READER
PBYPASSL
BBSL
RED-BLACK
YELLOW
GRAY/WHITE
RED/WHITE
BLACK
YELLOW
RED/WHITE-BLACK/WHITE
BB SENSOR LEFT
BREW VALVE LEFT
TANK HEATERS



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EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL	A	03/20/2014	AG	DWG. NAME:			
+/_ .005	B			WIRING, CBS-2131-XTS, L1, N+GND, 1 HEATER			
FRACTIONAL	C			DRAWN BY AG	SCALE N/A	MATERIAL N/A	
+/- 1/64"	D			CHK'D SZ	SIZE A	DRAWING NO.	
ANGULAR	E			APP'D LW	DATE 03-20-2014	1401.00087.00	
+/- 1/2 DEG							

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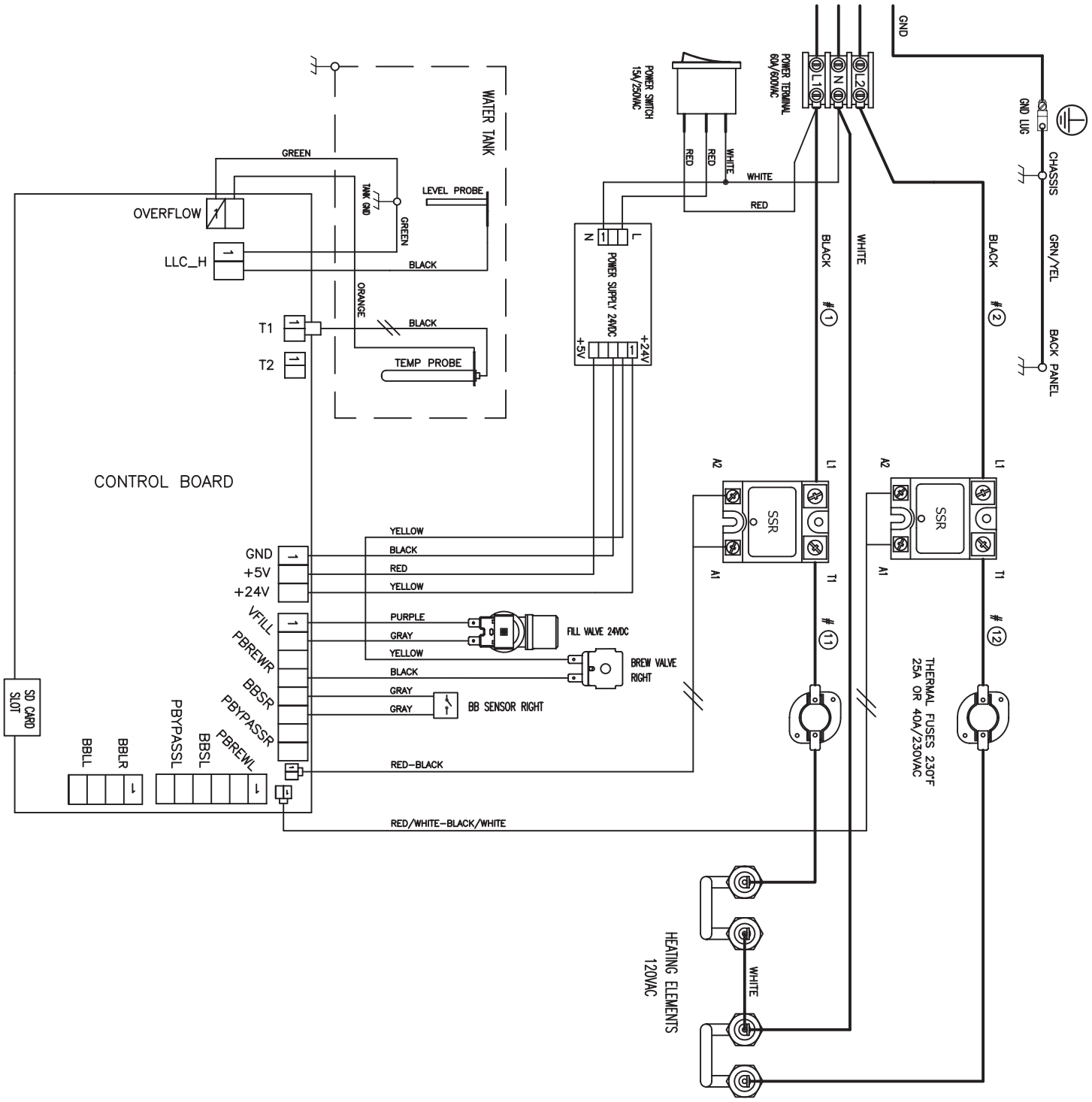
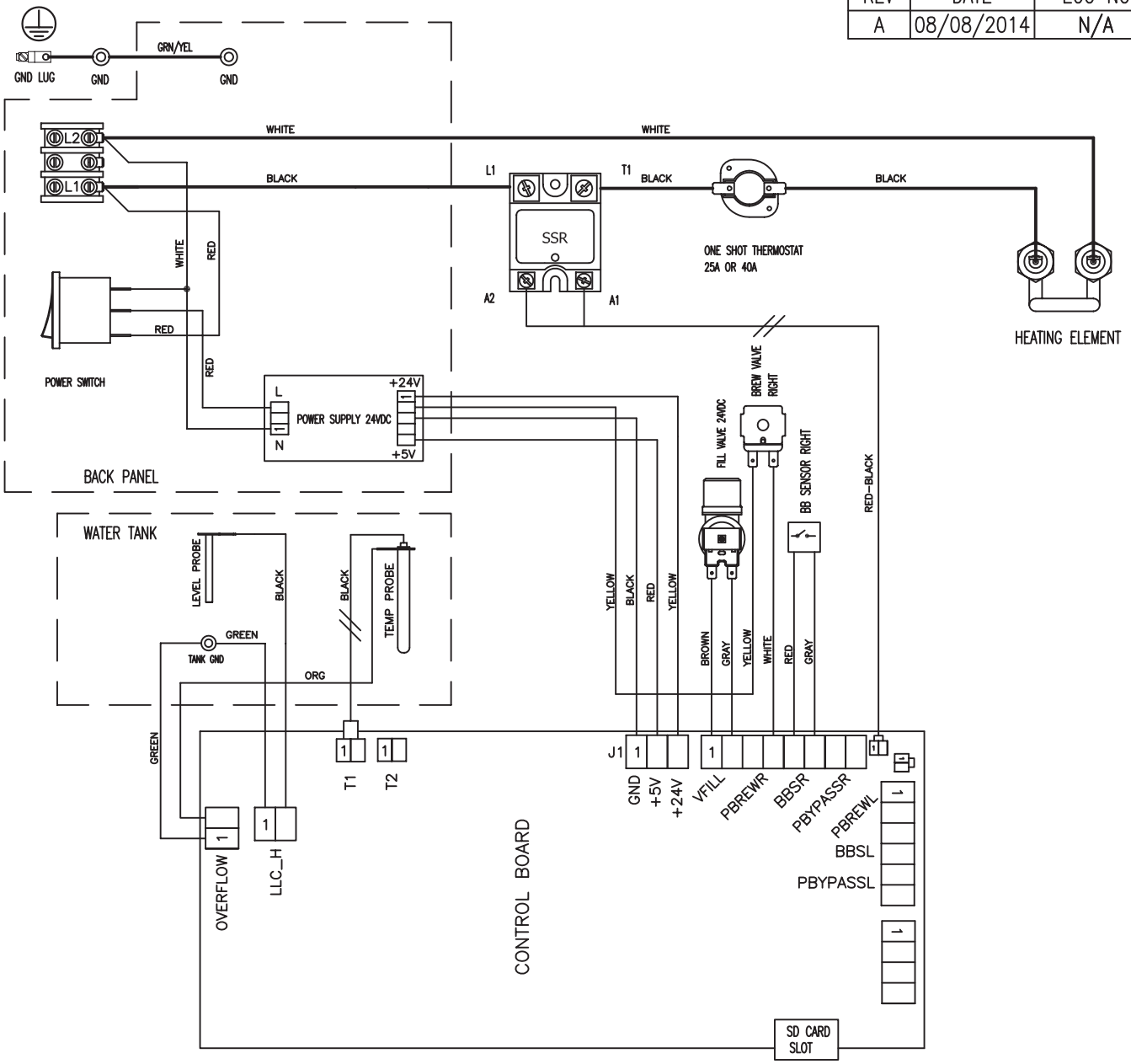
REVISIONS					A
REV	DATE	ECO NO	DESCRIPTION	BY:	
A	04/10/14	N/A	ORIGINAL	AG	



TOLERANCES	REVISIONS			FETCO®	FOOD EQUIPMENT TECHNOLOGY COMPANY 600 ROSE RD. LAKE ZURICH, IL 60047 PHONE: 847-719-3000, FAX: 847-719-3001 WWW.FETCO.COM		
EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL +/_ .005	A	04-10-14	AG	DWG. NAME: WIRING, CBS-2131 XTS, L1, L2, N+GND, 2 HEATERS OR L1, N+GND, 1 HEATER			
FRACTIONAL +/- 1/64"	B						
ANGULAR +/- 1/2 DEG	C			DRAWN BY AG	SCALE N/A	MATERIAL N/A	
	D			CHK'D L.W	SIZE A	DRAWING NO. 1401.00091.00	
	E			APP'D L.W	DATE 04-10-2014		

REVISIONS				
REV	DATE	ECO NO	DESCRIPTION	BY:
A	08/08/2014	N/A	ORIGINAL	AG

A



TOLERANCES	REVISIONS			FETCO®	FOOD EQUIPMENT TECHNOLOGY COMPANY 600 ROSE RD. LAKE ZURICH, IL 60047 PHONE: 847-719-3000, FAX: 847-719-3001 WWW.FETCO.COM		
EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL +/_ .005	A	08/08/2014	AG	DWG. NAME: WIRING, CBS-2131-XTS, L1, L2+GND, 1 HEATER, JAPAN			
FRACTIONAL +/- 1/64"	B						
ANGULAR +/- 1/2 DEG	C			DRAWN BY AG	SCALE N/A	MATERIAL N/A	
	D			CHK'D SZ	SIZE A	DRAWING NO. 1401.00094.00	
	E			APP'D LW	DATE 08/08/2014		

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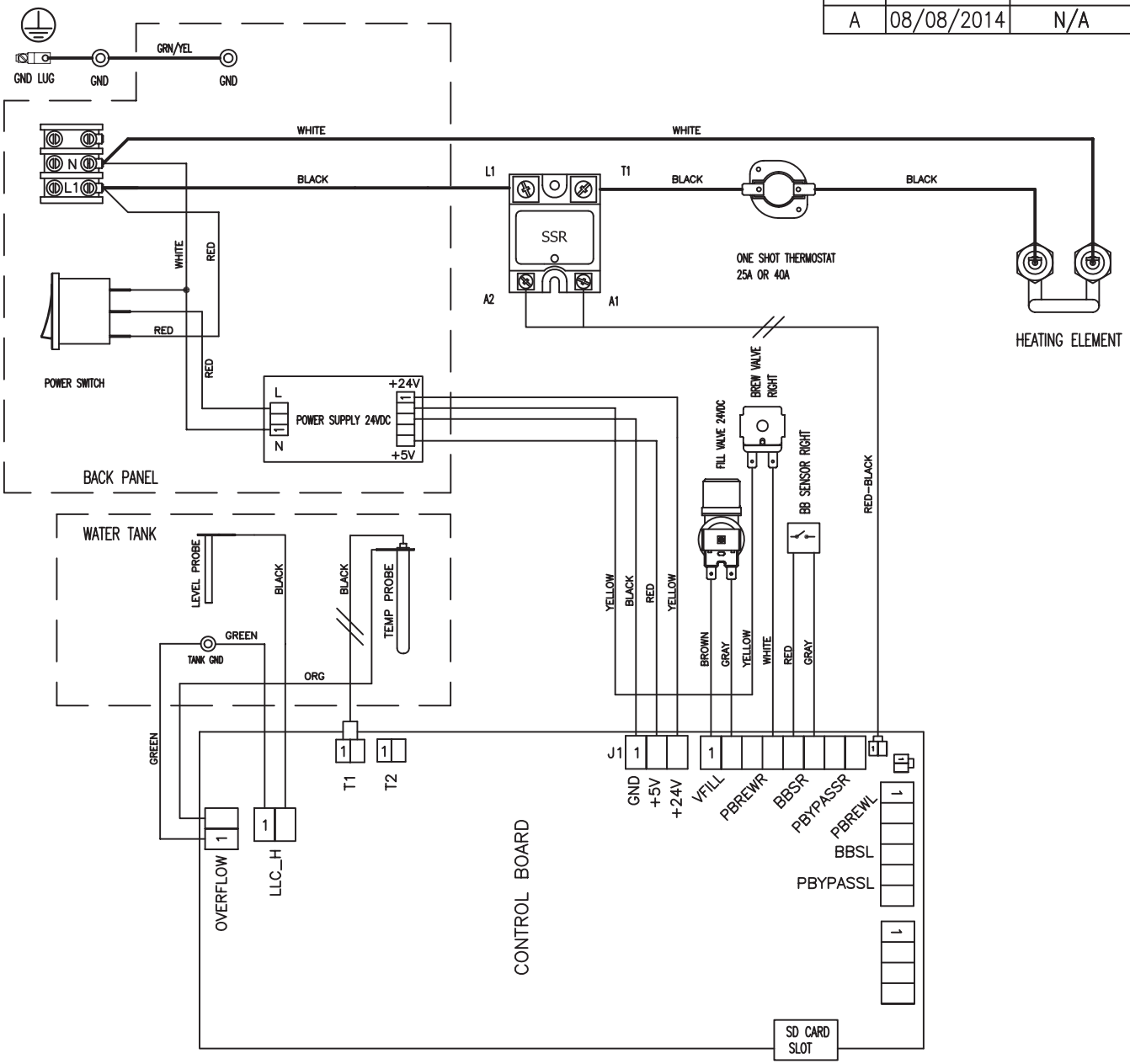
REVISIONS				
REV	DATE	ECO NO	DESCRIPTION	BY:
A	08/08/2014	N/A	ORIGINAL	AG

A



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EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL +/_ .005	A	08-08-14	AG	DWG. NAME: WIRING, CBS-2131-XTS, L1, N+GND, 1 HEATER, EXPORT			
FRACTIONAL +/- 1/64"	B						
ANGULAR +/- 1/2 DEG	C			DRAWN BY AG	SCALE N/A	MATERIAL N/A	
	D			CHK'D SZ	SIZE A	DRAWING NO. 1401.00095.00	
	E			APP'D LW	DATE 08-08-2014		

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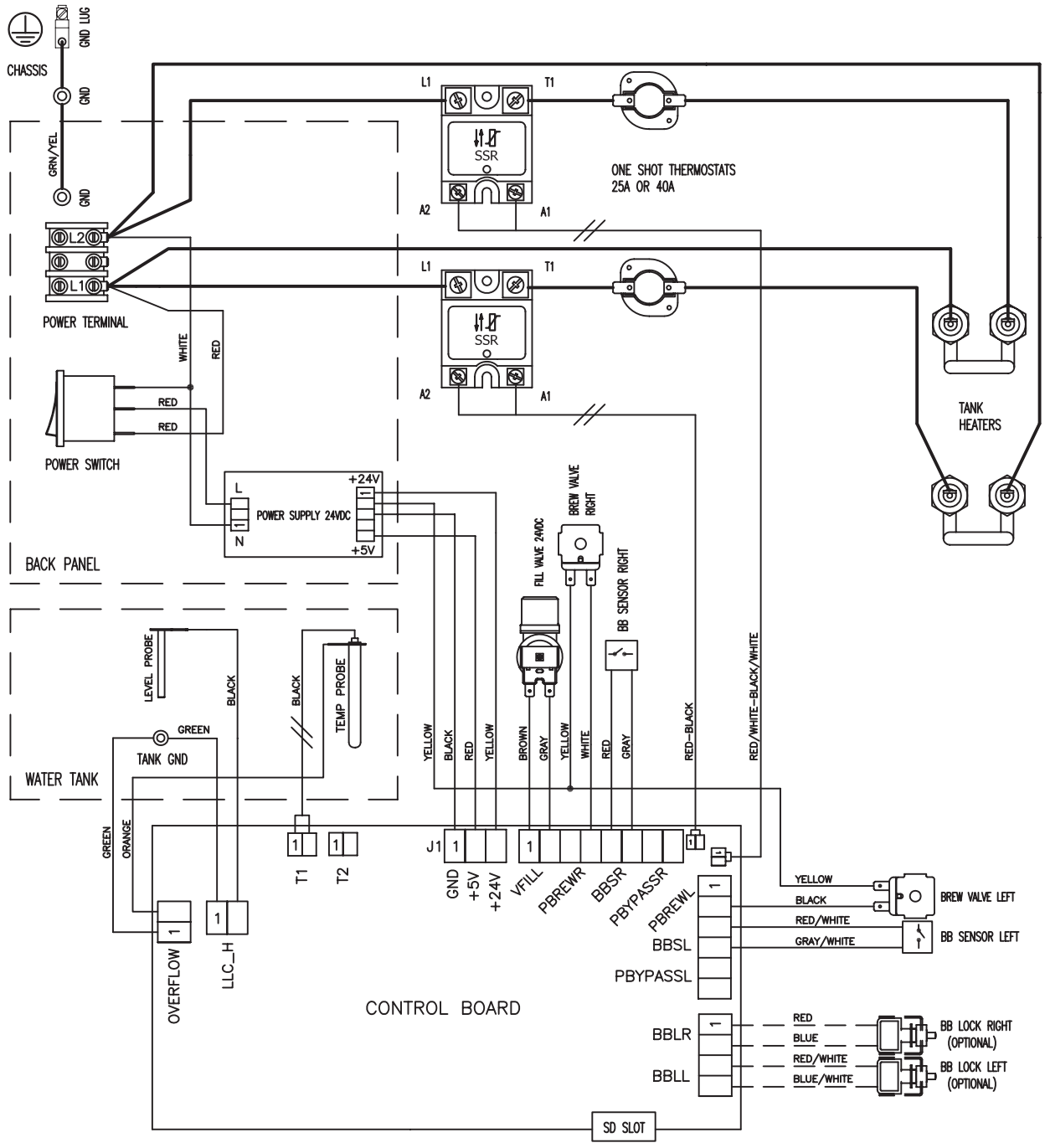
REVISIONS				
REV	DATE	ECO NO	DESCRIPTION	BY: E
A	04/22/13	N/A	ORIGINAL	AG
B	05/15/13	N/A	CONNECT REVISED T-STAT ADDED	AS
C	08/30/13	N/A	REVISED SCHEMATIC	AG
D	03/20/14	N/A	REVISED SCHEMATIC	AG
E	02/18/15	N/A	REVISED, BB LOCK ADDED	SZ



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EXCEPT AS NOTED	NO.	DATE	BY				
DECIMAL N/A	A	04-22-13	AG	DWG. NAME: WIRING, CBS_2132XTS, (L1, L2 + GND), 2 HEATERS			
FRACTIONAL N/A	B	05-15-13	AS				
	C	08-30-13	AG	DRAWN BY AG	SCALE N/A	MATERIAL N/A	
ANGULAR N/A	D	03-20-14	AG	CHK'D SZ	SIZE A	DRAWING NO. 1401.00050.00	
	E	02-18-15	SZ	APP'D LW	DATE 04-22-2013		